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Administration

Petroleum Supply Monthly

with data for August 2022

October 2022



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Preface

The Petroleum Supply Monthly (PSM) is the monthly component of a series of three publications produced by the Office of Petroleum and Biofuels Statistics of the U.S. Energy Information Administration (EIA). The other two components are the Weekly Petroleum Status Report (WPSR) and the Petroleum Supply Annual (PSA). Together these publications present comprehensive petroleum and biofuel supply data on a weekly, monthly and annual basis.

Data presented in the PSM describe the supply and disposition of petroleum products in the United States and major U.S. geographic regions. The data series describe production, imports and exports, inter-Petroleum Administration for Defense (PAD) District movements, and inventories by the primary suppliers of petroleum products in the United States (50 States and the District of Columbia). The reporting universe includes those petroleum sectors in primary supply. Included are: petroleum refiners, motor gasoline blenders, oxygenate producers, operators of natural gas processing plants and fractionators, inter-PAD District transporters, importers, and major inventory holders of crude oil, petroleum products, and biofuels. When aggregated, the data reported by these sectors approximately represent the consumption of petroleum products in the United States.

Scope of data

The PSM presents statistics for the most current month available as well as year-to-date. In most cases, the statistics are presented for several geographic areas - - the United States (50 States and the District of Columbia), five PAD Districts, and 12 Refining Districts. At the U.S. and PAD District levels, the total volume and the daily rate of activities are presented. The statistics are developed from monthly survey forms submitted by respondents to the EIA and from data provided from other sources including federal and state agencies.

Sections

- U.S. supply and disposition of crude oil, petroleum products, and biofuels
- Regional supply and disposition of crude oil, petroleum products, and biofuels
- Crude oil supply and disposition and production by state
- Natural Gas Processing
- Refinery Operations
- Imports of residual fuel oil by state of entry
- Imports by PADD
- Imports by country of origin
- Exports
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- Stocks
- Movements of crude oil, petroleum products, and biofuels

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Table 1. U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, August 2022
(Thousand Barrels)

Commodity	Supply					Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³	
Crude Oil⁴	371,233	--	--	196,232	26,150	-27,421	507,802	113,235	0	864,799
Hydrocarbon Gas Liquids	186,947	-698	24,813	5,063	--	22,204	16,551	74,795	102,576	230,651
Natural Gas Liquids	186,947	-698	16,862	4,613	--	22,448	16,551	74,795	93,931	228,850
Ethane	73,220	--	197	--	--	2,553	--	15,193	55,671	50,063
Propane	59,355	--	9,117	2,708	--	8,574	--	42,846	19,760	72,704
Normal Butane	17,041	--	8,001	1,527	--	9,533	2,156	11,296	3,584	69,493
Isobutane	14,503	--	-453	373	--	599	7,383	222	6,219	10,620
Natural Gasoline	22,828	-698	--	5	--	1,189	7,012	5,237	8,697	25,970
Refinery Olefins	--	--	7,951	450	--	-244	--	--	8,645	1,801
Ethylene	--	--	27	--	--	0	--	--	27	0
Propylene	--	--	8,153	431	--	-138	--	--	8,722	1,091
Normal Butylene	--	--	-215	19	--	-103	--	--	-93	605
Isobutylene	--	--	-14	--	--	-3	--	--	-11	105
Other Liquids	--	37,224	--	34,793	4,674	-13,092	69,367	11,168	9,248	313,845
Hydrogen/Biofuels/Other Hydrocarbons	--	37,224	--	1,253	5,464	-1,720	37,365	2,665	5,631	28,802
Hydrogen	--	--	--	--	6,881	--	6,881	--	0	--
Biofuels (including Fuel Ethanol)	--	37,224	--	1,249	-1,420	-1,725	30,482	2,665	5,631	28,785
Fuel Ethanol ⁵	--	30,473	--	445	-1,420	-787	28,443	1,842	0	23,340
Biofuels (excluding Fuel Ethanol)	--	6,751	--	804	--	-938	2,039	823	5,631	5,445
Biodiesel	--	3,521	--	371	--	-333	1,429	823	1,973	2,712
Renewable Diesel Fuel	--	2,784	--	421	--	-594	376	NA	3,424	2,554
Other Biofuels ⁶	--	446	--	12	--	-11	234	NA	235	179
Other Hydrocarbons	--	--	--	4	3	5	2	--	0	17
Unfinished Oils	--	--	--	13,966	--	-1,284	5,097	6,527	3,626	86,432
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	19,574	-790	-10,075	26,883	1,976	0	198,579
Reformulated	--	0	--	5,336	1,041	-4,415	10,791	2	0	42,490
Conventional	--	0	--	14,238	-1,831	-5,660	16,092	1,975	0	156,088
Aviation Gasoline Blend. Comp.	--	--	--	--	--	-13	22	--	-9	33
Finished Petroleum Products	--	249	599,196	22,899	2,210	-7,685	--	105,430	526,808	248,150
Finished Motor Gasoline	--	238	306,052	2,913	2,210	74	--	29,857	281,482	17,035
Reformulated	--	--	93,526	--	-466	1	--	--	93,059	23
Conventional	--	238	212,526	2,913	2,676	73	--	29,857	188,424	17,012
Finished Aviation Gasoline	--	--	440	3	--	-123	--	--	566	1,028
Kerosene-Type Jet Fuel	--	9	52,183	2,646	--	-2,842	--	6,529	51,152	38,390
Kerosene	--	--	418	--	--	-46	--	436	28	1,036
Distillate Fuel Oil ⁵	--	1	159,410	5,457	--	735	--	44,136	119,997	113,261
15 ppm sulfur and under	--	1	152,797	5,132	--	255	--	38,053	119,622	103,073
Greater than 15 ppm to 500 ppm sulfur	--	0	3,087	319	--	-80	--	3,236	250	2,582
Greater than 500 ppm sulfur	--	--	3,526	6	--	560	--	2,847	125	7,606
Residual Fuel Oil	--	--	8,500	5,925	--	-548	--	3,502	11,471	28,558
Less than 0.31 percent sulfur	--	--	1,338	1,025	--	90	--	NA	NA	2,624
0.31 to 1.00 percent sulfur	--	--	3,609	772	--	-58	--	NA	NA	6,986
Greater than 1.00 percent sulfur	--	--	3,553	4,128	--	-580	--	NA	NA	18,948
Petrochemical Feedstocks	--	--	6,615	479	--	-72	--	--	7,166	2,552
Naphtha for Petro. Feed. Use	--	--	3,376	390	--	63	--	--	3,703	1,940
Other Oils for Petro. Feed. Use	--	--	3,239	89	--	-135	--	--	3,463	612
Special Naphthas	--	--	985	1,073	--	-61	--	--	2,119	1,013
Lubricants	--	--	4,047	1,710	--	-592	--	2,196	4,153	10,879
Waxes	--	--	213	164	--	7	--	153	217	514
Petroleum Coke	--	--	25,447	382	--	-1,162	--	17,847	9,144	7,330
Marketable	--	--	19,087	382	--	-1,162	--	17,847	2,784	7,330
Catalyst	--	--	6,360	--	--	--	--	--	6,360	--
Asphalt and Road Oil	--	--	10,882	2,146	--	-3,047	--	718	15,357	25,684
Still Gas	--	--	21,228	--	--	--	--	--	21,228	--
Miscellaneous Products	--	--	2,776	1	--	-8	--	56	2,729	870
Total	558,180	36,774	624,009	258,987	33,034	-25,994	593,720	304,627	638,632	1,657,445

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁶ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

Table 2. U.S. Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-August 2022
(Thousand Barrels)

Commodity	Supply					Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³	
Crude Oil⁴	2,835,808	--	--	1,537,047	195,616	-150,303	3,877,540	841,234	0	864,799
Hydrocarbon Gas Liquids	1,421,768	-5,363	171,456	41,771	--	37,146	136,360	578,653	877,474	230,651
Natural Gas Liquids	1,421,768	-5,363	104,462	37,831	--	37,433	136,360	578,653	806,253	228,850
Ethane	581,348	--	1,593	--	--	-13,120	--	109,393	486,668	50,063
Propane	445,830	--	69,585	27,173	--	9,108	--	333,918	199,562	72,704
Normal Butane	127,608	--	36,591	8,683	--	35,212	32,022	92,025	13,623	69,493
Isobutane	107,977	--	-3,307	1,934	--	946	54,581	1,300	49,777	10,620
Natural Gasoline	159,005	-5,363	--	41	--	5,287	49,757	42,016	56,623	25,970
Refinery Olefins	--	--	66,994	3,940	--	-287	--	--	71,221	1,801
Ethylene	--	--	194	--	--	0	--	--	194	0
Propylene	--	--	67,405	3,427	--	-306	--	--	71,138	1,091
Normal Butylene	--	--	-708	513	--	-41	--	--	-154	605
Isobutylene	--	--	103	--	--	60	--	--	43	105
Other Liquids	--	295,873	--	275,169	57,831	-9,571	456,744	122,544	59,155	313,845
Hydrogen/Biofuels/Other Hydrocarbons	--	295,875	--	8,353	47,551	155	284,342	29,338	37,944	28,802
Hydrogen	--	--	--	--	53,712	--	53,712	--	0	--
Biofuels (including Fuel Ethanol)	--	295,875	--	8,284	-6,185	154	230,538	29,338	37,944	28,785
Fuel Ethanol ⁵	--	245,626	--	952	-6,185	1,329	214,962	24,102	0	23,340
Biofuels (excluding Fuel Ethanol)	--	50,249	--	7,332	--	-1,175	15,576	5,236	37,944	5,445
Biodiesel	--	25,274	--	3,133	--	-1,472	10,854	5,236	13,789	2,712
Renewable Diesel Fuel	--	22,172	--	4,137	--	201	2,836	NA	23,272	2,554
Other Biofuels ⁶	--	2,803	--	62	--	96	1,886	NA	882	179
Other Hydrocarbons	--	--	--	69	24	1	92	--	0	17
Unfinished Oils	--	--	--	127,939	--	6,181	23,467	77,281	21,010	86,432
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-2	--	138,877	10,279	-15,915	149,145	15,925	0	198,579
Reformulated	--	-2	--	39,109	35,260	-4,866	79,207	26	0	42,490
Conventional	--	0	--	99,768	-24,981	-11,049	69,938	15,898	0	156,088
Aviation Gasoline Blend. Comp.	--	--	--	--	--	8	-210	--	202	33
Finished Petroleum Products	--	1,520	4,545,690	191,426	-4,095	-12,483	--	750,336	3,996,688	248,150
Finished Motor Gasoline	--	1,440	2,318,764	24,441	-4,095	-708	--	207,043	2,134,215	17,035
Reformulated	--	--	713,982	--	-32,894	1	--	--	681,087	23
Conventional	--	1,440	1,604,782	24,441	28,800	-709	--	207,043	1,453,128	17,012
Finished Aviation Gasoline	--	--	2,524	225	--	-223	--	--	2,972	1,028
Kerosene-Type Jet Fuel	--	65	394,568	29,185	--	2,592	--	43,804	377,422	38,390
Kerosene	--	0	1,480	18	--	-1,209	--	1,787	920	1,036
Distillate Fuel Oil ⁵	--	15	1,203,076	48,160	--	-16,667	--	306,041	961,877	113,261
15 ppm sulfur and under	--	15	1,151,143	46,287	--	-17,106	--	259,302	955,250	103,073
Greater than 15 ppm to 500 ppm sulfur	--	0	23,546	1,378	--	-203	--	23,346	1,781	2,582
Greater than 500 ppm sulfur	--	0	28,387	495	--	642	--	23,393	4,847	7,606
Residual Fuel Oil	--	--	59,252	53,569	--	3,169	--	25,618	84,034	28,558
Less than 0.31 percent sulfur	--	--	9,507	1,905	--	84	--	NA	NA	2,624
0.31 to 1.00 percent sulfur	--	--	26,556	7,169	--	674	--	NA	NA	6,986
Greater than 1.00 percent sulfur	--	--	23,189	44,495	--	2,411	--	NA	NA	18,948
Petrochemical Feedstocks	--	--	55,289	3,788	--	12	--	--	59,065	2,552
Naphtha for Petro. Feed. Use	--	--	31,671	2,982	--	58	--	--	34,595	1,940
Other Oils for Petro. Feed. Use	--	--	23,618	806	--	-46	--	--	24,470	612
Special Naphthas	--	--	8,615	3,138	--	-35	--	--	11,788	1,013
Lubricants	--	--	39,143	11,602	--	-1,955	--	24,809	27,891	10,879
Waxes	--	--	1,416	1,437	--	-35	--	1,170	1,718	514
Petroleum Coke	--	--	196,662	2,535	--	510	--	135,687	63,000	7,330
Marketable	--	--	147,780	2,535	--	510	--	135,687	14,118	7,330
Catalyst	--	--	48,882	--	--	--	--	--	48,882	--
Asphalt and Road Oil	--	--	82,210	13,320	--	1,817	--	3,936	89,777	25,684
Still Gas	--	--	160,883	--	--	--	--	--	160,883	--
Miscellaneous Products	--	--	21,808	8	--	249	--	442	21,125	870
Total	4,257,576	292,030	4,717,146	2,045,413	249,352	-135,211	4,470,644	2,292,767	4,933,317	1,657,445

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁶ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

Table 3. U.S. Daily Average Supply and Disposition of Crude Oil and Petroleum Products, August 2022
(Thousand Barrels per Day)

Commodity	Supply					Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³
Crude Oil⁴	11,975	--	--	6,330	844	-885	16,381	3,653	0
Hydrocarbon Gas Liquids	6,031	-23	800	163	--	716	534	2,413	3,309
Natural Gas Liquids	6,031	-23	544	149	--	724	534	2,413	3,030
Ethane	2,362	--	6	--	--	82	--	490	1,796
Propane	1,915	--	294	87	--	277	--	1,382	637
Normal Butane	550	--	258	49	--	308	70	364	116
Isobutane	468	--	-15	12	--	19	238	7	201
Natural Gasoline	736	-23	--	0	--	38	226	169	281
Refinery Olefins	--	--	256	15	--	-8	--	--	279
Ethylene	--	--	1	--	--	0	--	--	1
Propylene	--	--	263	14	--	-4	--	--	281
Normal Butylene	--	--	-7	1	--	-3	--	--	-3
Isobutylene	--	--	0	--	--	0	--	--	0
Other Liquids	--	1,201	--	1,122	151	-422	2,238	360	298
Hydrogen/Biofuels/Other Hydrocarbons	--	1,201	--	40	176	-55	1,205	86	182
Hydrogen	--	--	--	--	222	--	222	--	0
Biofuels (including Fuel Ethanol)	--	1,201	--	40	-46	-56	983	86	182
Fuel Ethanol ⁵	--	983	--	14	-46	-25	918	59	0
Biofuels (excluding Fuel Ethanol)	--	218	--	26	--	-30	66	27	182
Biodiesel	--	114	--	12	--	-11	46	27	64
Renewable Diesel Fuel	--	90	--	14	--	-19	12	NA	110
Other Biofuels ⁶	--	14	--	0	--	0	8	NA	8
Other Hydrocarbons	--	--	--	0	0	0	0	--	0
Unfinished Oils	--	--	--	451	--	-41	164	211	117
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	631	-25	-325	867	64	0
Reformulated	--	0	--	172	34	-142	348	0	0
Conventional	--	0	--	459	-59	-183	519	64	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	1	--	0
Finished Petroleum Products	--	8	19,329	739	71	-248	--	3,401	16,994
Finished Motor Gasoline	--	8	9,873	94	71	2	--	963	9,080
Reformulated	--	--	3,017	--	-15	0	--	--	3,002
Conventional	--	8	6,856	94	86	2	--	963	6,078
Finished Aviation Gasoline	--	--	14	0	--	-4	--	--	18
Kerosene-Type Jet Fuel	--	0	1,683	85	--	-92	--	211	1,650
Kerosene	--	--	13	--	--	-1	--	14	1
Distillate Fuel Oil ⁵	--	0	5,142	176	--	24	--	1,424	3,871
15 ppm sulfur and under	--	0	4,929	166	--	8	--	1,228	3,859
Greater than 15 ppm to 500 ppm sulfur	--	0	100	10	--	-3	--	104	8
Greater than 500 ppm sulfur	--	--	114	0	--	18	--	92	4
Residual Fuel Oil	--	--	274	191	--	-18	--	113	370
Less than 0.31 percent sulfur	--	--	43	33	--	3	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	116	25	--	-2	--	NA	NA
Greater than 1.00 percent sulfur	--	--	115	133	--	-19	--	NA	NA
Petrochemical Feedstocks	--	--	213	15	--	-2	--	--	231
Naphtha for Petro. Feed. Use	--	--	109	13	--	2	--	--	119
Other Oils for Petro. Feed. Use	--	--	104	3	--	-4	--	--	112
Special Naphthas	--	--	32	35	--	-2	--	--	68
Lubricants	--	--	131	55	--	-19	--	71	134
Waxes	--	--	7	5	--	0	--	5	7
Petroleum Coke	--	--	821	12	--	-37	--	576	295
Marketable	--	--	616	12	--	-37	--	576	90
Catalyst	--	--	205	--	--	--	--	--	205
Asphalt and Road Oil	--	--	351	69	--	-98	--	23	495
Still Gas	--	--	685	--	--	--	--	--	685
Miscellaneous Products	--	--	90	0	--	0	--	2	88
Total	18,006	1,186	20,129	8,354	1,066	-839	19,152	9,827	20,601

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
³ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁶ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

Table 4. U.S. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-August 2022
(Thousand Barrels per Day)

Commodity	Supply					Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³
Crude Oil⁴	11,670	--	--	6,325	805	-619	15,957	3,462	0
Hydrocarbon Gas Liquids	5,851	-22	706	172	--	153	561	2,381	3,611
Natural Gas Liquids	5,851	-22	430	156	--	154	561	2,381	3,318
Ethane	2,392	--	7	--	--	-54	--	450	2,003
Propane	1,835	--	286	112	--	37	--	1,374	821
Normal Butane	525	--	151	36	--	145	132	379	56
Isobutane	444	--	-14	8	--	4	225	5	205
Natural Gasoline	654	-22	--	0	--	22	205	173	233
Refinery Olefins	--	--	276	16	--	-1	--	--	293
Ethylene	--	--	1	--	--	0	--	--	1
Propylene	--	--	277	14	--	-1	--	--	293
Normal Butylene	--	--	-3	2	--	0	--	--	-1
Isobutylene	--	--	0	--	--	0	--	--	0
Other Liquids	--	1,218	--	1,132	238	-39	1,880	504	243
Hydrogen/Biofuels/Other Hydrocarbons	--	1,218	--	34	196	1	1,170	121	156
Hydrogen	--	--	--	--	221	--	221	--	0
Biofuels (including Fuel Ethanol)	--	1,218	--	34	-25	1	949	121	156
Fuel Ethanol ⁵	--	1,011	--	4	-25	5	885	99	0
Biofuels (excluding Fuel Ethanol)	--	207	--	30	--	-5	64	22	156
Biodiesel	--	104	--	13	--	-6	45	22	57
Renewable Diesel Fuel	--	91	--	17	--	1	12	NA	96
Other Biofuels ⁶	--	12	--	0	--	0	8	NA	4
Other Hydrocarbons	--	--	--	0	0	0	0	--	0
Unfinished Oils	--	--	--	526	--	25	97	318	86
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	572	42	-65	614	66	0
Reformulated	--	0	--	161	145	-20	326	0	0
Conventional	--	0	--	411	-103	-45	288	65	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	-1	--	1
Finished Petroleum Products	--	6	18,707	788	-17	-51	--	3,088	16,447
Finished Motor Gasoline	--	6	9,542	101	-17	-3	--	852	8,783
Reformulated	--	--	2,938	--	-135	0	--	--	2,803
Conventional	--	6	6,604	101	119	-3	--	852	5,980
Finished Aviation Gasoline	--	--	10	1	--	-1	--	--	12
Kerosene-Type Jet Fuel	--	0	1,624	120	--	11	--	180	1,553
Kerosene	--	0	6	0	--	-5	--	7	4
Distillate Fuel Oil ⁵	--	0	4,951	198	--	-69	--	1,259	3,958
15 ppm sulfur and under	--	0	4,737	190	--	-70	--	1,067	3,931
Greater than 15 ppm to 500 ppm sulfur	--	0	97	6	--	-1	--	96	7
Greater than 500 ppm sulfur	--	0	117	2	--	3	--	96	20
Residual Fuel Oil	--	--	244	220	--	13	--	105	346
Less than 0.31 percent sulfur	--	--	39	8	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	109	30	--	3	--	NA	NA
Greater than 1.00 percent sulfur	--	--	95	183	--	10	--	NA	NA
Petrochemical Feedstocks	--	--	228	16	--	0	--	--	243
Naphtha for Petro. Feed. Use	--	--	130	12	--	0	--	--	142
Other Oils for Petro. Feed. Use	--	--	97	3	--	0	--	--	101
Special Naphthas	--	--	35	13	--	0	--	--	49
Lubricants	--	--	161	48	--	-8	--	102	115
Waxes	--	--	6	6	--	0	--	5	7
Petroleum Coke	--	--	809	10	--	2	--	558	259
Marketable	--	--	608	10	--	2	--	558	58
Catalyst	--	--	201	--	--	--	--	--	201
Asphalt and Road Oil	--	--	338	55	--	7	--	16	369
Still Gas	--	--	662	--	--	--	--	--	662
Miscellaneous Products	--	--	90	0	--	1	--	2	87
Total	17,521	1,202	19,412	8,417	1,026	-556	18,398	9,435	20,302

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁶ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

Table 5. PAD District 1 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, August 2022
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	1,851	--	--	20,688	2,541	2,544	-407	25,131	2,899	0	7,044
Hydrocarbon Gas Liquids	19,640	-9	1,061	947	1,665	--	629	232	9,045	13,398	10,755
Natural Gas Liquids	19,640	-9	712	632	1,254	--	633	232	9,045	12,319	10,557
Ethane	7,846	--	--	--	-5,667	--	-184	--	2,577	-214	942
Propane	6,851	--	454	570	5,710	--	82	--	4,969	8,534	6,717
Normal Butane	2,026	--	282	55	1,719	--	719	93	1,422	1,848	2,415
Isobutane	970	--	-24	7	-255	--	-3	116	--	585	100
Natural Gasoline	1,947	-9	--	--	-253	--	19	23	77	1,566	383
Refinery Olefins	--	--	349	315	411	--	-4	--	--	1,079	198
Ethylene	--	--	14	--	--	--	--	--	--	14	--
Propylene	--	--	293	315	411	--	3	--	--	1,016	110
Normal Butylene	--	--	-1	--	--	--	2	--	--	-3	3
Isobutylene	--	--	43	--	--	--	-9	--	--	52	85
Other Liquids	--	492	--	17,945	63,449	10,442	1,347	90,510	164	308	63,264
Hydrogen/Biofuels/Other Hydrocarbons	--	492	--	122	9,233	1,153	183	10,691	139	-13	8,129
Hydrogen	--	--	--	--	--	76	--	76	--	0	--
Biofuels (including Fuel Ethanol)	--	492	--	122	9,233	1,077	183	10,615	139	-13	8,129
Fuel Ethanol ⁶	--	379	--	--	9,167	1,077	161	10,329	132	0	7,435
Biofuels (excluding Fuel Ethanol) ⁷	--	113	--	122	66	--	21	286	7	-13	694
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	582	42	--	175	107	21	321	3,659
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	17,241	54,174	9,289	989	79,712	3	0	51,476
Reformulated	--	--	--	4,919	11,204	1,774	1,207	16,690	0	0	15,421
Conventional	--	--	--	12,322	42,970	7,515	-218	63,022	3	0	36,055
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	0	115,917	11,023	41,709	-10,366	127	--	1,938	156,218	52,968
Finished Motor Gasoline	--	--	101,351	2,500	2,004	-10,366	186	--	38	95,265	2,644
Reformulated	--	--	36,820	--	--	-2,269	0	--	--	34,551	4
Conventional	--	--	64,531	2,500	2,004	-8,097	186	--	38	60,714	2,640
Finished Aviation Gasoline	--	--	--	--	41	--	34	--	--	7	214
Kerosene-Type Jet Fuel	--	--	3,129	524	15,425	--	-856	--	16	19,918	9,833
Kerosene	--	--	71	--	--	--	-31	--	5	97	397
Distillate Fuel Oil ⁶	--	0	6,972	3,680	22,126	--	2,027	--	152	30,600	28,238
15 ppm sulfur and under	--	0	7,114	3,679	21,324	--	1,752	--	53	30,312	26,210
Greater than 15 ppm to 500 ppm sulfur	--	--	17	1	1	--	-48	--	18	49	620
Greater than 500 ppm sulfur	--	--	-159	--	801	--	323	--	80	239	1,408
Residual Fuel Oil	--	--	1,206	2,598	93	--	-515	--	506	3,906	4,177
Less than 0.31 percent sulfur	--	--	5	1,025	93	--	-95	--	NA	NA	270
0.31 to 1.00 percent sulfur	--	--	979	724	--	--	33	--	NA	NA	954
Greater than 1.00 percent sulfur	--	--	222	849	--	--	-453	--	NA	NA	2,953
Petrochemical Feedstocks	--	--	--	78	--	--	--	--	--	78	--
Naphtha for Petro. Feed. Use	--	--	--	75	--	--	--	--	--	75	--
Other Oils for Petro. Feed. Use	--	--	--	3	--	--	--	--	--	3	--
Special Naphthas	--	--	11	1	--	--	-3	--	--	15	38
Lubricants	--	--	361	136	441	--	-67	--	208	797	1,409
Waxes	--	--	-3	104	--	--	-4	--	82	23	177
Petroleum Coke	--	--	752	1	498	--	--	--	802	448	--
Marketable	--	--	299	1	498	--	--	--	802	-5	--
Catalyst	--	--	453	--	--	--	--	--	--	453	--
Asphalt and Road Oil	--	--	1,103	1,401	1,081	--	-638	--	111	4,112	5,771
Still Gas	--	--	879	--	--	--	--	--	--	879	--
Miscellaneous Products	--	--	85	--	--	--	-6	--	18	73	70
Total	21,491	484	116,978	50,603	109,363	2,620	1,696	115,873	14,045	169,924	134,031

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁷ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 6. PAD District 1 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-August 2022
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	15,257	--	--	141,573	20,399	13,107	-610	177,644	13,302	0	7,044
Hydrocarbon Gas Liquids	149,529	-70	5,913	10,820	16,969	--	541	5,903	65,215	111,501	10,755
Natural Gas Liquids	149,529	-70	2,989	8,313	14,186	--	602	5,903	65,215	103,226	10,557
Ethane	58,786	--	--	--	-40,639	--	258	--	17,807	82	942
Propane	52,752	--	3,265	7,820	47,440	--	-804	--	34,865	77,216	6,717
Normal Butane	16,085	--	195	342	11,842	--	1,062	3,723	12,010	11,669	2,415
Isobutane	7,156	--	-471	151	-2,412	--	-36	956	5	3,499	100
Natural Gasoline	14,750	-70	--	--	-2,045	--	122	1,224	528	10,760	383
Refinery Olefins	--	--	2,924	2,507	2,783	--	-61	--	--	8,275	198
Ethylene	--	--	118	--	--	--	--	--	--	118	--
Propylene	--	--	2,453	2,507	2,783	--	-36	--	--	7,779	110
Normal Butylene	--	--	-1	--	--	--	-81	--	--	80	3
Isobutylene	--	--	354	--	--	--	56	--	--	298	85
Other Liquids	--	3,800	--	123,949	481,651	73,326	-6,283	684,331	2,095	2,582	63,264
Hydrogen/Biofuels/Other Hydrocarbons	--	3,800	--	1,393	69,535	10,197	1,061	81,407	1,456	1,000	8,129
Hydrogen	--	--	--	--	--	786	--	786	--	0	--
Biofuels (including Fuel Ethanol)	--	3,800	--	1,393	69,535	9,411	1,061	80,621	1,456	1,000	8,129
Fuel Ethanol ⁶	--	2,802	--	--	68,242	9,411	1,408	77,887	1,160	0	7,435
Biofuels (excluding Fuel Ethanol) ⁷	--	998	--	1,393	1,292	--	-346	2,734	296	1,000	694
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	9,387	53	--	87	7,263	507	1,583	3,659
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	113,169	412,063	63,129	-7,431	595,661	131	0	51,476
Reformulated	--	--	--	37,403	69,202	7,791	-3,962	118,350	8	0	15,421
Conventional	--	--	--	75,766	342,861	55,338	-3,469	477,311	123	0	36,055
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	4	870,409	88,106	337,288	-72,540	-17,509	--	17,901	1,222,876	52,968
Finished Motor Gasoline	--	--	764,172	18,285	19,880	-72,540	-272	--	358	729,711	2,644
Reformulated	--	--	280,534	--	--	-12,380	-2	--	--	268,156	4
Conventional	--	--	483,638	18,285	19,880	-60,160	-270	--	358	461,555	2,640
Finished Aviation Gasoline	--	--	-8	92	555	--	-33	--	--	672	214
Kerosene-Type Jet Fuel	--	--	21,654	6,615	111,450	--	676	--	178	138,865	9,833
Kerosene	--	--	121	--	172	--	-1,361	--	21	1,633	397
Distillate Fuel Oil ⁶	--	4	51,107	37,893	189,466	--	-16,344	--	6,682	288,132	28,238
15 ppm sulfur and under	--	4	52,331	37,779	182,877	--	-14,932	--	5,161	282,762	26,210
Greater than 15 ppm to 500 ppm sulfur	--	--	20	52	68	--	-415	--	1,073	-518	620
Greater than 500 ppm sulfur	--	--	-1,244	62	6,521	--	-997	--	448	5,888	1,408
Residual Fuel Oil	--	--	10,340	14,785	265	--	-364	--	2,058	23,696	4,177
Less than 0.31 percent sulfur	--	--	-63	1,025	93	--	-37	--	NA	NA	270
0.31 to 1.00 percent sulfur	--	--	7,774	3,950	--	--	-339	--	NA	NA	954
Greater than 1.00 percent sulfur	--	--	2,629	9,810	172	--	12	--	NA	NA	2,953
Petrochemical Feedstocks	--	--	--	490	--	--	--	--	--	490	--
Naphtha for Petro. Feed. Use	--	--	--	480	--	--	--	--	--	480	--
Other Oils for Petro. Feed. Use	--	--	--	10	--	--	--	--	--	10	--
Special Naphthas	--	--	85	113	25	--	10	--	--	213	38
Lubricants	--	--	2,947	1,015	4,315	--	-86	--	2,009	6,354	1,409
Waxes	--	--	-60	776	--	--	-58	--	658	116	177
Petroleum Coke	--	--	5,422	11	2,633	--	--	--	5,147	2,920	--
Marketable	--	--	2,031	11	2,633	--	--	--	5,147	-471	--
Catalyst	--	--	3,391	--	--	--	--	--	--	3,391	--
Asphalt and Road Oil	--	--	7,204	8,031	8,526	--	320	--	641	22,800	5,771
Still Gas	--	--	6,712	--	--	--	--	--	--	6,712	--
Miscellaneous Products	--	--	713	--	--	--	3	--	148	562	70
Total	164,786	3,734	876,322	364,448	856,306	13,893	-23,861	867,878	98,513	1,336,959	134,031

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁷ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 7. PAD District 1 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, August 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	60	--	--	667	82	82	-13	811	94	0
Hydrocarbon Gas Liquids	634	0	34	31	54	--	20	7	292	432
Natural Gas Liquids	634	0	23	20	40	--	20	7	292	397
Ethane	253	--	--	--	-183	--	-6	--	83	-7
Propane	221	--	15	18	184	--	3	--	160	275
Normal Butane	65	--	9	2	55	--	23	3	46	60
Isobutane	31	--	-1	0	-8	--	0	4	--	19
Natural Gasoline	63	0	--	--	-8	--	1	1	2	51
Refinery Olefins	--	--	11	10	13	--	0	--	--	35
Ethylene	--	--	0	--	--	--	--	--	--	0
Propylene	--	--	9	10	13	--	0	--	--	33
Normal Butylene	--	--	0	--	--	--	0	--	--	0
Isobutylene	--	--	1	--	--	--	0	--	--	2
Other Liquids	--	16	--	579	2,047	337	43	2,920	5	10
Hydrogen/Biofuels/Other Hydrocarbons	--	16	--	4	298	37	6	345	4	0
Hydrogen	--	--	--	--	--	2	--	2	--	0
Biofuels (including Fuel Ethanol)	--	16	--	4	298	35	6	342	4	0
Fuel Ethanol ⁶	--	12	--	--	296	35	5	333	4	0
Biofuels (excluding Fuel Ethanol) ⁷	--	4	--	4	2	--	1	9	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	19	1	--	6	3	1	10
Motor Gasoline Blend.Comp. (MGBC) ⁶	--	--	--	556	1,748	300	32	2,571	0	0
Reformulated	--	--	--	159	361	57	39	538	0	0
Conventional	--	--	--	397	1,386	242	-7	2,033	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	0	3,739	356	1,345	-334	4	--	63	5,039
Finished Motor Gasoline	--	--	3,269	81	65	-334	6	--	1	3,073
Reformulated	--	--	1,188	--	--	-73	0	--	--	1,115
Conventional	--	--	2,082	81	65	-261	6	--	1	1,959
Finished Aviation Gasoline	--	--	--	--	1	--	1	--	--	0
Kerosene-Type Jet Fuel	--	--	101	17	498	--	-28	--	1	643
Kerosene	--	--	2	--	--	--	-1	--	0	3
Distillate Fuel Oil ⁶	--	0	225	119	714	--	65	--	5	987
15 ppm sulfur and under	--	0	229	119	688	--	57	--	2	978
Greater than 15 ppm to 500 ppm sulfur	--	--	1	0	0	--	-2	--	1	2
Greater than 500 ppm sulfur	--	--	-5	--	26	--	10	--	3	8
Residual Fuel Oil	--	--	39	84	3	--	-17	--	16	126
Less than 0.31 percent sulfur	--	--	0	33	3	--	-3	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	32	23	--	--	1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	7	27	--	--	-15	--	NA	NA
Petrochemical Feedstocks	--	--	--	3	--	--	--	--	--	3
Naphtha for Petro. Feed. Use	--	--	--	2	--	--	--	--	--	2
Other Oils for Petro. Feed. Use	--	--	--	0	--	--	--	--	--	0
Special Naphthas	--	--	0	0	--	--	0	--	--	0
Lubricants	--	--	12	4	14	--	-2	--	7	26
Waxes	--	--	0	3	--	--	0	--	3	1
Petroleum Coke	--	--	24	0	16	--	--	--	26	14
Marketable	--	--	10	0	16	--	--	--	26	0
Catalyst	--	--	15	--	--	--	--	--	--	15
Asphalt and Road Oil	--	--	36	45	35	--	-21	--	4	133
Still Gas	--	--	28	--	--	--	--	--	--	28
Miscellaneous Products	--	--	3	--	--	--	0	--	1	2
Total	693	16	3,773	1,632	3,528	85	55	3,738	453	5,481

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁷ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 8. PAD District 1 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-August 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	63	--	--	583	84	54	-3	731	55	0
Hydrocarbon Gas Liquids	615	0	24	45	70	--	2	24	268	459
Natural Gas Liquids	615	0	12	34	58	--	2	24	268	425
Ethane	242	--	--	--	-167	--	1	--	73	0
Propane	217	--	13	32	195	--	-3	--	143	318
Normal Butane	66	--	1	1	49	--	4	15	49	48
Isobutane	29	--	-2	1	-10	--	0	4	0	14
Natural Gasoline	61	0	--	--	-8	--	1	5	2	44
Refinery Olefins	--	--	12	10	11	--	0	--	--	34
Ethylene	--	--	0	--	--	--	--	--	--	0
Propylene	--	--	10	10	11	--	0	--	--	32
Normal Butylene	--	--	0	--	--	--	0	--	--	0
Isobutylene	--	--	1	--	--	--	0	--	--	1
Other Liquids	--	16	--	510	1,982	302	-26	2,816	9	11
Hydrogen/Biofuels/Other Hydrocarbons	--	16	--	6	286	42	4	335	6	4
Hydrogen	--	--	--	--	--	3	--	3	--	0
Biofuels (including Fuel Ethanol)	--	16	--	6	286	39	4	332	6	4
Fuel Ethanol ⁶	--	12	--	--	281	39	6	321	5	0
Biofuels (excluding Fuel Ethanol) ⁷	--	4	--	6	5	--	-1	11	1	4
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	39	0	--	0	30	2	7
Motor Gasoline Blend.Comp. (MGBC) ⁶	--	--	--	466	1,696	260	-31	2,451	1	0
Reformulated	--	--	--	154	285	32	-16	487	0	0
Conventional	--	--	--	312	1,411	228	-14	1,964	1	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	0	3,582	363	1,388	-299	-72	--	74	5,032
Finished Motor Gasoline	--	--	3,145	75	82	-299	-1	--	1	3,003
Reformulated	--	--	1,154	--	--	-51	0	--	--	1,104
Conventional	--	--	1,990	75	82	-248	-1	--	1	1,899
Finished Aviation Gasoline	--	--	0	0	2	--	0	--	--	3
Kerosene-Type Jet Fuel	--	--	89	27	459	--	3	--	1	571
Kerosene	--	--	0	--	1	--	-6	--	0	7
Distillate Fuel Oil ⁶	--	0	210	156	780	--	-67	--	27	1,186
15 ppm sulfur and under	--	0	215	155	753	--	-61	--	21	1,164
Greater than 15 ppm to 500 ppm sulfur	--	--	0	0	0	--	-2	--	4	-2
Greater than 500 ppm sulfur	--	--	-5	0	27	--	-4	--	2	24
Residual Fuel Oil	--	--	43	61	1	--	-1	--	8	98
Less than 0.31 percent sulfur	--	--	0	4	0	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	32	16	--	--	-1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	11	40	1	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	--	2	--	--	--	--	--	2
Naphtha for Petro. Feed. Use	--	--	--	2	--	--	--	--	--	2
Other Oils for Petro. Feed. Use	--	--	--	0	--	--	--	--	--	0
Special Naphthas	--	--	0	0	0	--	0	--	--	1
Lubricants	--	--	12	4	18	--	0	--	8	26
Waxes	--	--	0	3	--	--	0	--	3	0
Petroleum Coke	--	--	22	0	11	--	--	--	21	12
Marketable	--	--	8	0	11	--	--	--	21	-2
Catalyst	--	--	14	--	--	--	--	--	--	14
Asphalt and Road Oil	--	--	30	33	35	--	1	--	3	94
Still Gas	--	--	28	--	--	--	--	--	--	28
Miscellaneous Products	--	--	3	--	--	--	0	--	1	2
Total	678	15	3,606	1,500	3,524	57	-98	3,572	405	5,502

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁷ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 9. PAD District 2 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, August 2022
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	51,528	--	--	90,175	-12,326	-10,989	-2,585	119,440	1,533	0	106,514
Hydrocarbon Gas Liquids	34,611	-659	5,498	2,352	-18,011	--	4,338	2,968	7,718	8,767	56,657
Natural Gas Liquids	34,611	-659	4,095	2,217	-16,981	--	4,342	2,968	7,718	8,255	56,177
Ethane	11,972	--	--	--	-7,321	--	-678	--	2,380	2,949	5,806
Propane	11,990	--	2,344	1,036	-10,802	--	1,882	--	161	2,525	21,229
Normal Butane	4,151	--	2,002	894	-4,326	--	2,899	57	139	-374	17,131
Isobutane	2,092	--	-251	283	41	--	-39	1,929	4	271	2,004
Natural Gasoline	4,406	-659	--	4	5,427	--	278	982	5,035	2,883	10,007
Refinery Olefins	--	--	1,403	135	-1,030	--	-4	--	--	512	480
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1,265	116	-1,030	--	35	--	--	316	380
Normal Butylene	--	--	138	19	--	--	-39	--	--	196	100
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	31,857	--	452	-14,511	-1,877	-6,714	19,996	4,080	-1,442	62,923
Hydrogen/Biofuels/Other Hydrocarbons	--	31,857	--	131	-19,865	-624	-1,313	9,524	1,277	2,011	9,620
Hydrogen	--	--	--	--	--	1,174	--	1,174	--	0	--
Biofuels (including Fuel Ethanol)	--	31,857	--	131	-19,865	-1,805	-1,318	8,348	1,277	2,011	9,603
Fuel Ethanol	--	28,728	--	--	-19,430	-1,805	-1,224	7,787	931	0	8,625
Biofuels (excluding Fuel Ethanol) ⁶	--	3,129	--	131	-435	--	-94	561	346	2,011	977
Other Hydrocarbons	--	--	--	--	--	7	5	2	--	0	17
Unfinished Oils	--	--	--	1	-749	--	-502	500	2,707	-3,453	13,803
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	320	6,103	-1,254	-4,898	9,972	95	0	39,501
Reformulated	--	0	--	--	1,799	-540	-1,283	2,542	--	0	4,211
Conventional	--	0	--	320	4,304	-713	-3,615	7,430	95	0	35,289
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	164	142,969	1,465	1,919	3,058	-2,826	--	1,324	151,077	54,309
Finished Motor Gasoline	--	167	79,315	--	1,001	3,058	130	--	406	83,006	4,497
Reformulated	--	--	10,369	--	--	719	--	--	--	11,088	--
Conventional	--	167	68,946	--	1,001	2,339	130	--	406	71,918	4,497
Finished Aviation Gasoline	--	--	48	2	50	--	-33	--	--	133	128
Kerosene-Type Jet Fuel	--	--	8,428	--	592	--	-681	--	34	9,667	6,979
Kerosene	--	--	58	--	--	--	18	--	0	40	132
Distillate Fuel Oil	--	-3	37,144	385	3,147	--	234	--	187	40,252	27,276
15 ppm sulfur and under	--	-3	37,206	375	3,072	--	210	--	0	40,439	26,721
Greater than 15 ppm to 500 ppm sulfur	--	0	185	4	75	--	119	--	28	117	313
Greater than 500 ppm sulfur	--	--	-247	6	--	--	-95	--	158	-304	242
Residual Fuel Oil	--	--	1,112	147	-874	--	-126	--	8	503	999
Less than 0.31 percent sulfur	--	--	4	--	-105	--	-96	--	NA	NA	64
0.31 to 1.00 percent sulfur	--	--	519	5	-304	--	0	--	NA	NA	239
Greater than 1.00 percent sulfur	--	--	589	142	-465	--	-30	--	NA	NA	696
Petrochemical Feedstocks	--	--	867	120	-71	--	-9	--	--	925	518
Naphtha for Petro. Feed. Use	--	--	549	67	-48	--	-3	--	--	571	416
Other Oils for Petro. Feed. Use	--	--	318	53	-23	--	-6	--	--	354	102
Special Naphthas	--	--	2	8	-63	--	7	--	--	-60	164
Lubricants	--	--	259	215	197	--	84	--	195	392	753
Waxes	--	--	46	14	--	--	10	--	42	8	67
Petroleum Coke	--	--	5,765	24	-1,307	--	-655	--	364	4,774	2,142
Marketable	--	--	4,247	24	-1,307	--	-655	--	364	3,256	2,142
Catalyst	--	--	1,518	--	--	--	--	--	--	1,518	--
Asphalt and Road Oil	--	--	5,026	550	-753	--	-1,767	--	87	6,503	10,555
Still Gas	--	--	4,420	--	--	--	--	--	--	4,420	--
Miscellaneous Products	--	--	479	--	--	--	-38	--	1	516	99
Total	86,139	31,363	148,467	94,444	-42,929	-9,808	-7,786	142,404	14,656	158,402	280,402

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

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³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

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⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 10. PAD District 2 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-August 2022
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	400,829	--	--	692,598	-129,606	-24,864	-11,125	934,693	15,388	0	106,514
Hydrocarbon Gas Liquids	269,988	-5,053	34,997	17,198	-124,022	--	6,746	23,220	58,427	104,716	56,657
Natural Gas Liquids	269,988	-5,053	24,119	15,790	-116,869	--	6,826	23,220	58,427	99,503	56,177
Ethane	103,111	--	--	--	-54,832	--	-1,127	--	16,484	32,922	5,806
Propane	90,599	--	18,702	10,273	-78,080	--	-209	--	1,158	40,545	21,229
Normal Butane	30,535	--	7,346	3,782	-29,787	--	8,278	3,002	913	-317	17,131
Isobutane	15,431	--	-1,929	1,696	4,745	--	-348	13,876	22	6,393	2,004
Natural Gasoline	30,312	-5,053	--	39	41,085	--	232	6,342	39,851	19,959	10,007
Refinery Olefins	--	--	10,878	1,408	-7,153	--	-80	--	--	5,213	480
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	10,364	920	-7,153	--	-73	--	--	4,204	380
Normal Butylene	--	--	514	488	--	--	-7	--	--	1,009	100
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	254,135	--	4,151	-111,207	-22,001	-7,444	111,593	26,522	-5,592	62,923
Hydrogen/Biofuels/Other Hydrocarbons	--	254,137	--	605	-150,293	-14,169	-1,000	71,213	7,590	12,478	9,620
Hydrogen	--	--	--	--	--	9,336	--	9,336	--	0	--
Biofuels (including Fuel Ethanol)	--	254,137	--	605	-150,293	-23,598	-1,001	61,785	7,590	12,478	9,603
Fuel Ethanol	--	231,923	--	--	-144,729	-23,598	-745	58,468	5,873	0	8,625
Biofuels (excluding Fuel Ethanol) ⁶	--	22,214	--	605	-5,563	--	-256	3,317	1,717	12,478	977
Other Hydrocarbons	--	--	--	--	--	93	1	92	--	0	17
Unfinished Oils	--	--	--	74	-4,341	--	533	-4,364	17,634	-18,070	13,803
Motor Gasoline Blend.Comp. (MGBC)	--	-2	--	3,472	43,427	-7,832	-6,976	44,744	1,298	0	39,501
Reformulated	--	-2	--	--	11,359	3,028	-438	14,824	--	0	4,211
Conventional	--	0	--	3,472	32,068	-10,860	-6,538	29,920	1,298	0	35,289
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	1,007	1,087,444	10,803	4,831	31,430	-141	--	10,018	1,125,638	54,309
Finished Motor Gasoline	--	1,029	597,168	--	4,438	31,430	95	--	3,217	630,752	4,497
Reformulated	--	--	79,820	--	--	-1,736	--	--	--	78,084	--
Conventional	--	1,029	517,348	--	4,438	33,166	95	--	3,217	552,669	4,497
Finished Aviation Gasoline	--	--	156	33	125	--	-44	--	--	358	128
Kerosene-Type Jet Fuel	--	--	64,032	34	6,831	--	158	--	168	70,571	6,979
Kerosene	--	0	827	--	26	--	-5	--	5	853	132
Distillate Fuel Oil	--	-22	282,609	2,379	15,563	--	-1,897	--	1,248	301,177	27,276
15 ppm sulfur and under	--	-22	282,599	2,209	14,437	--	-1,861	--	5	301,079	26,721
Greater than 15 ppm to 500 ppm sulfur	--	0	963	41	1,077	--	77	--	323	1,681	313
Greater than 500 ppm sulfur	--	0	-953	129	49	--	-113	--	920	-1,582	242
Residual Fuel Oil	--	--	8,887	1,021	-6,417	--	42	--	9	3,440	999
Less than 0.31 percent sulfur	--	--	581	--	-373	--	13	--	NA	NA	64
0.31 to 1.00 percent sulfur	--	--	3,610	84	-3,116	--	43	--	NA	NA	239
Greater than 1.00 percent sulfur	--	--	4,696	937	-2,928	--	-14	--	NA	NA	696
Petrochemical Feedstocks	--	--	7,060	1,207	-562	--	-14	--	--	7,719	518
Naphtha for Petro. Feed. Use	--	--	4,061	691	-484	--	4	--	--	4,264	416
Other Oils for Petro. Feed. Use	--	--	2,999	516	-78	--	-18	--	--	3,455	102
Special Naphthas	--	--	-218	58	81	--	12	--	--	-91	164
Lubricants	--	--	1,694	1,723	1,552	--	32	--	1,579	3,358	753
Waxes	--	--	311	116	--	--	27	--	296	104	67
Petroleum Coke	--	--	45,621	170	-8,620	--	640	--	2,967	33,563	2,142
Marketable	--	--	33,950	170	-8,620	--	640	--	2,967	21,892	2,142
Catalyst	--	--	11,671	--	--	--	--	--	--	11,671	--
Asphalt and Road Oil	--	--	40,984	4,062	-8,240	--	838	--	516	35,452	10,555
Still Gas	--	--	34,418	--	--	--	--	--	--	34,418	--
Miscellaneous Products	--	--	3,895	--	55	--	-25	--	11	3,964	99
Total	670,817	250,089	1,122,441	724,750	-360,004	-15,435	-11,964	1,069,506	110,355	1,224,761	280,402

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 11. PAD District 2 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, August 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	1,662	--	--	2,909	-398	-354	-83	3,853	49	0
Hydrocarbon Gas Liquids	1,116	-21	177	76	-581	--	140	96	249	283
Natural Gas Liquids	1,116	-21	132	72	-548	--	140	96	249	266
Ethane	386	--	--	--	-236	--	-22	--	77	95
Propane	387	--	76	33	-348	--	61	--	5	81
Normal Butane	134	--	65	29	-140	--	94	2	4	-12
Isobutane	67	--	-8	9	1	--	-1	62	0	9
Natural Gasoline	142	-21	--	0	175	--	9	32	162	93
Refinery Olefins	--	--	45	4	-33	--	0	--	--	17
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	41	4	-33	--	1	--	--	10
Normal Butylene	--	--	4	1	--	--	-1	--	--	6
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	1,028	--	15	-468	-61	-217	645	132	-47
Hydrogen/Biofuels/Other Hydrocarbons	--	1,028	--	4	-641	-20	-42	307	41	65
Hydrogen	--	--	--	--	--	38	--	38	--	0
Biofuels (including Fuel Ethanol)	--	1,028	--	4	-641	-58	-43	269	41	65
Fuel Ethanol	--	927	--	--	-627	-58	-39	251	30	0
Biofuels (excluding Fuel Ethanol) ⁶	--	101	--	4	-14	--	-3	18	11	65
Other Hydrocarbons	--	--	--	--	--	0	0	0	--	0
Unfinished Oils	--	--	--	0	-24	--	-16	16	87	-111
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	10	197	-40	-158	322	3	0
Reformulated	--	0	--	--	58	-17	-41	82	--	0
Conventional	--	0	--	10	139	-23	-117	240	3	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	5	4,612	47	62	99	-91	--	43	4,873
Finished Motor Gasoline	--	5	2,559	--	32	99	4	--	13	2,678
Reformulated	--	--	334	--	--	23	--	--	--	358
Conventional	--	5	2,224	--	32	75	4	--	13	2,320
Finished Aviation Gasoline	--	--	2	0	2	--	-1	--	--	4
Kerosene-Type Jet Fuel	--	--	272	--	19	--	-22	--	1	312
Kerosene	--	--	2	--	--	--	1	--	0	1
Distillate Fuel Oil	--	0	1,198	12	102	--	8	--	6	1,298
15 ppm sulfur and under	--	0	1,200	12	99	--	7	--	0	1,304
Greater than 15 ppm to 500 ppm sulfur	--	0	6	0	2	--	4	--	1	4
Greater than 500 ppm sulfur	--	--	-8	0	--	--	-3	--	5	-10
Residual Fuel Oil	--	--	36	5	-28	--	-4	--	0	16
Less than 0.31 percent sulfur	--	--	0	--	-3	--	-3	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	17	0	-10	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	19	5	-15	--	-1	--	NA	NA
Petrochemical Feedstocks	--	--	28	4	-2	--	0	--	--	30
Naphtha for Petro. Feed. Use	--	--	18	2	-2	--	0	--	--	18
Other Oils for Petro. Feed. Use	--	--	10	2	-1	--	0	--	--	11
Special Naphthas	--	--	0	0	-2	--	0	--	--	-2
Lubricants	--	--	8	7	6	--	3	--	6	13
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	186	1	-42	--	-21	--	12	154
Marketable	--	--	137	1	-42	--	-21	--	12	105
Catalyst	--	--	49	--	--	--	--	--	--	49
Asphalt and Road Oil	--	--	162	18	-24	--	-57	--	3	210
Still Gas	--	--	143	--	--	--	--	--	--	143
Miscellaneous Products	--	--	15	--	--	--	-1	--	0	17
Total	2,779	1,012	4,789	3,047	-1,385	-316	-251	4,594	473	5,110

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 12. PAD District 2 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-August 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	1,650	--	--	2,850	-533	-102	-46	3,846	63	0
Hydrocarbon Gas Liquids	1,111	-21	144	71	-510	--	28	96	240	431
Natural Gas Liquids	1,111	-21	99	65	-481	--	28	96	240	409
Ethane	424	--	--	--	-226	--	-5	--	68	135
Propane	373	--	77	42	-321	--	-1	--	5	167
Normal Butane	126	--	30	16	-123	--	34	12	4	-1
Isobutane	64	--	-8	7	20	--	-1	57	0	26
Natural Gasoline	125	-21	--	0	169	--	1	26	164	82
Refinery Olefins	--	--	45	6	-29	--	0	--	--	21
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	43	4	-29	--	0	--	--	17
Normal Butylene	--	--	2	2	--	--	0	--	--	4
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	1,046	--	17	-458	-91	-31	459	109	-23
Hydrogen/Biofuels/Other Hydrocarbons	--	1,046	--	2	-618	-58	-4	293	31	51
Hydrogen	--	--	--	--	--	38	--	38	--	0
Biofuels (including Fuel Ethanol)	--	1,046	--	2	-618	-97	-4	254	31	51
Fuel Ethanol	--	954	--	--	-596	-97	-3	241	24	0
Biofuels (excluding Fuel Ethanol) ⁶	--	91	--	2	-23	--	-1	14	7	51
Other Hydrocarbons	--	--	--	--	--	0	0	0	--	0
Unfinished Oils	--	--	--	0	-18	--	2	-18	73	-74
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	14	179	-32	-29	184	5	0
Reformulated	--	0	--	--	47	12	-2	61	--	0
Conventional	--	0	--	14	132	-45	-27	123	5	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	4	4,475	44	20	129	-1	--	41	4,632
Finished Motor Gasoline	--	4	2,457	--	18	129	0	--	13	2,596
Reformulated	--	--	328	--	--	-7	--	--	--	321
Conventional	--	4	2,129	--	18	136	0	--	13	2,274
Finished Aviation Gasoline	--	--	1	0	1	--	0	--	--	1
Kerosene-Type Jet Fuel	--	--	264	0	28	--	1	--	1	290
Kerosene	--	0	3	--	0	--	0	--	0	4
Distillate Fuel Oil	--	0	1,163	10	64	--	-8	--	5	1,239
15 ppm sulfur and under	--	0	1,163	9	59	--	-8	--	0	1,239
Greater than 15 ppm to 500 ppm sulfur	--	0	4	0	4	--	0	--	1	7
Greater than 500 ppm sulfur	--	0	-4	1	0	--	0	--	4	-7
Residual Fuel Oil	--	--	37	4	-26	--	0	--	0	14
Less than 0.31 percent sulfur	--	--	2	--	-2	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	15	0	-13	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	19	4	-12	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	29	5	-2	--	0	--	--	32
Naphtha for Petro. Feed. Use	--	--	17	3	-2	--	0	--	--	18
Other Oils for Petro. Feed. Use	--	--	12	2	0	--	0	--	--	14
Special Naphthas	--	--	-1	0	0	--	0	--	--	0
Lubricants	--	--	7	7	6	--	0	--	6	14
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	188	1	-35	--	3	--	12	138
Marketable	--	--	140	1	-35	--	3	--	12	90
Catalyst	--	--	48	--	--	--	--	--	--	48
Asphalt and Road Oil	--	--	169	17	-34	--	3	--	2	146
Still Gas	--	--	142	--	--	--	--	--	--	142
Miscellaneous Products	--	--	16	--	0	--	0	--	0	16
Total	2,761	1,029	4,619	2,983	-1,481	-64	-49	4,401	454	5,040

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 13. PAD District 3 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, August 2022
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil⁶	267,110	--	--	38,424	27,981	29,859	-22,003	276,575	108,802	0	679,906
Hydrocarbon Gas Liquids	113,934	-15	15,430	1	30,720	--	15,998	10,719	56,350	77,004	150,685
Natural Gas Liquids	113,934	-15	9,513	1	30,101	--	16,253	10,719	56,350	70,213	149,706
Ethane	48,347	--	197	--	18,240	--	3,584	--	10,237	52,963	42,080
Propane	34,412	--	5,042	--	9,696	--	5,956	--	36,839	6,355	40,378
Normal Butane	7,980	--	4,496	--	4,300	--	5,148	1,394	8,971	1,263	44,725
Isobutane	10,195	--	-222	--	1,048	--	731	4,360	215	5,715	7,768
Natural Gasoline	13,000	-15	--	1	-3,183	--	834	4,965	88	3,916	14,755
Refinery Olefins	--	--	5,917	--	619	--	-255	--	--	6,791	979
Ethylene	--	--	13	--	--	--	0	--	--	13	0
Propylene	--	--	6,383	--	619	--	-179	--	--	7,181	587
Normal Butylene	--	--	-422	--	--	--	-82	--	--	-340	372
Isobutylene	--	--	-57	--	--	--	6	--	--	-63	20
Other Liquids	--	3,112	--	13,486	-60,459	-3,129	-4,319	-56,794	5,982	8,140	129,989
Hydrogen/Biofuels/Other Hydrocarbons	--	3,112	--	75	4,119	3,429	-520	8,844	673	1,737	5,266
Hydrogen	--	--	--	--	--	3,984	--	3,984	--	0	--
Biofuels (including Fuel Ethanol)	--	3,112	--	71	4,119	-551	-520	4,860	673	1,737	5,266
Fuel Ethanol	--	740	--	--	4,773	-551	-171	4,577	556	0	4,009
Biofuels (excluding Fuel Ethanol) ⁷	--	2,372	--	71	-654	--	-349	283	117	1,737	1,257
Other Hydrocarbons	--	--	--	4	--	-4	--	--	--	0	--
Unfinished Oils	--	--	--	11,456	707	--	-904	3,045	3,610	6,412	47,151
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	1,955	-65,285	-6,558	-2,882	-68,705	1,699	0	77,539
Reformulated	--	--	--	417	-14,957	282	-2,659	-11,600	1	0	10,761
Conventional	--	--	--	1,538	-50,328	-6,840	-223	-57,105	1,698	0	66,778
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	-13	22	--	-9	33
Finished Petroleum Products	--	6	232,866	6,069	-45,149	7,109	-1,734	--	95,023	107,612	100,609
Finished Motor Gasoline	--	0	68,011	--	-2,725	7,109	100	--	28,786	43,509	6,965
Reformulated	--	--	14,265	--	--	780	--	--	--	15,045	--
Conventional	--	0	53,746	--	-2,725	6,329	100	--	28,786	28,464	6,965
Finished Aviation Gasoline	--	--	326	--	-91	--	-135	--	--	370	455
Kerosene-Type Jet Fuel	--	--	26,147	--	-17,030	--	-530	--	5,713	3,934	11,890
Kerosene	--	--	289	--	--	--	-32	--	232	89	501
Distillate Fuel Oil	--	6	94,106	--	-26,357	--	-139	--	41,769	26,125	42,019
15 ppm sulfur and under	--	6	88,122	--	-25,480	--	-398	--	36,037	27,009	35,478
Greater than 15 ppm to 500 ppm sulfur	--	0	2,469	--	-76	--	-152	--	3,183	-638	1,234
Greater than 500 ppm sulfur	--	--	3,515	--	-801	--	411	--	2,549	-246	5,307
Residual Fuel Oil	--	--	3,475	3,062	781	--	-31	--	2,656	4,693	17,833
Less than 0.31 percent sulfur	--	--	1,107	--	12	--	325	--	NA	NA	1,086
0.31 to 1.00 percent sulfur	--	--	1,446	--	304	--	-77	--	NA	NA	5,102
Greater than 1.00 percent sulfur	--	--	922	3,062	465	--	-279	--	NA	NA	11,645
Petrochemical Feedstocks	--	--	5,748	211	71	--	-63	--	--	6,093	2,032
Naphtha for Petro. Feed. Use	--	--	2,827	178	48	--	66	--	--	2,987	1,522
Other Oils for Petro. Feed. Use	--	--	2,921	33	23	--	-129	--	--	3,106	510
Special Naphthas	--	--	955	1,064	63	--	-62	--	--	2,144	788
Lubricants	--	--	3,315	1,354	-638	--	-404	--	1,627	2,808	8,158
Waxes	--	--	170	21	--	--	1	--	24	166	270
Petroleum Coke	--	--	14,388	357	1,067	--	-497	--	13,682	2,628	3,486
Marketable	--	--	11,145	357	1,067	--	-497	--	13,682	-615	3,486
Catalyst	--	--	3,243	--	--	--	--	--	--	3,243	--
Asphalt and Road Oil	--	--	2,831	--	-291	--	20	--	497	2,023	5,611
Still Gas	--	--	11,407	--	--	--	--	--	--	11,407	--
Miscellaneous Products	--	--	1,698	--	--	--	38	--	37	1,623	601
Total	381,044	3,103	248,296	57,980	-46,907	33,839	-12,059	230,500	266,157	192,756	1,061,189

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁷ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 14. PAD District 3 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-August 2022
(Thousand Barrels)

Commodity	Supply						Disposition					Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵		
Crude Oil⁶	2,022,806	--	--	325,224	244,656	191,866	-138,829	2,112,385	810,996	0	679,906	
Hydrocarbon Gas Liquids	852,663	-113	113,241	43	222,121	--	28,079	85,209	441,723	632,944	150,685	
Natural Gas Liquids	852,663	-113	62,370	18	217,751	--	28,243	85,209	441,723	577,514	149,706	
Ethane	375,944	--	1,593	--	140,297	--	-12,187	--	75,097	454,924	42,080	
Propane	255,396	--	38,036	16	66,893	--	10,244	--	291,769	58,328	40,378	
Normal Butane	58,613	--	24,177	--	30,139	--	23,982	18,683	72,487	-2,223	44,725	
Isobutane	75,008	--	-1,436	--	4,674	--	1,354	33,103	1,263	42,526	7,768	
Natural Gasoline	87,702	-113	--	2	-24,252	--	4,850	33,423	1,107	23,959	14,755	
Refinery Olefins	--	--	50,871	25	4,370	--	-164	--	--	55,430	979	
Ethylene	--	--	76	--	--	--	0	--	--	76	--	
Propylene	--	--	52,865	--	4,370	--	-192	--	--	57,427	587	
Normal Butylene	--	--	-1,819	25	--	--	24	--	--	-1,818	372	
Isobutylene	--	--	-251	--	--	--	4	--	--	-255	20	
Other Liquids	--	24,236	--	115,936	-453,756	5,352	7,743	-448,765	87,391	45,399	129,989	
Hydrogen/Biofuels/Other Hydrocarbons	--	24,236	--	568	38,245	36,180	-279	69,591	15,991	13,926	5,266	
Hydrogen	--	--	--	--	--	30,927	--	30,927	--	0	--	
Biofuels (including Fuel Ethanol)	--	24,236	--	499	38,245	5,322	-279	38,664	15,991	13,926	5,266	
Fuel Ethanol	--	5,640	--	--	40,069	5,322	133	35,649	15,250	0	4,009	
Biofuels (excluding Fuel Ethanol) ⁷	--	18,596	--	499	-1,825	--	-412	3,015	742	13,926	1,257	
Other Hydrocarbons	--	--	--	69	--	-69	--	--	--	0	--	
Unfinished Oils	--	--	--	102,363	4,012	--	5,445	11,609	58,051	31,270	47,151	
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	13,005	-496,013	-30,829	2,569	-529,755	13,349	0	77,539	
Reformulated	--	--	--	417	-95,457	22,757	1,268	-73,559	8	0	10,761	
Conventional	--	--	--	12,588	-400,556	-53,586	1,301	-456,196	13,341	0	66,778	
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	8	-210	--	202	33	
Finished Petroleum Products	--	48	1,774,029	52,197	-357,528	25,506	5,504	--	663,773	824,975	100,609	
Finished Motor Gasoline	--	0	523,750	179	-22,384	25,506	196	--	196,497	330,359	6,965	
Reformulated	--	--	109,556	--	--	-19,743	--	--	--	89,813	--	
Conventional	--	0	414,194	179	-22,384	45,250	196	--	196,497	240,546	6,965	
Finished Aviation Gasoline	--	--	2,150	80	-680	--	-52	--	--	1,602	455	
Kerosene-Type Jet Fuel	--	--	204,330	--	-125,604	--	828	--	38,340	39,558	11,890	
Kerosene	--	--	477	--	-198	--	187	--	1,553	-1,461	501	
Distillate Fuel Oil	--	48	705,696	271	-216,294	--	2,784	--	282,113	204,823	42,019	
15 ppm sulfur and under	--	48	659,537	136	-208,579	--	929	--	241,714	208,499	35,478	
Greater than 15 ppm to 500 ppm sulfur	--	0	19,535	25	-1,145	--	150	--	20,424	-2,160	1,234	
Greater than 500 ppm sulfur	--	--	26,624	110	-6,570	--	1,705	--	19,975	-1,516	5,307	
Residual Fuel Oil	--	--	17,666	35,593	6,152	--	2,504	--	19,834	37,073	17,833	
Less than 0.31 percent sulfur	--	--	7,317	880	280	--	15	--	NA	NA	1,086	
0.31 to 1.00 percent sulfur	--	--	9,812	2,021	3,116	--	718	--	NA	NA	5,102	
Greater than 1.00 percent sulfur	--	--	537	32,692	2,756	--	1,771	--	NA	NA	11,645	
Petrochemical Feedstocks	--	--	48,229	1,811	562	--	26	--	--	50,576	2,032	
Naphtha for Petro. Feed. Use	--	--	27,610	1,531	484	--	54	--	--	29,571	1,522	
Other Oils for Petro. Feed. Use	--	--	20,619	280	78	--	-28	--	--	21,005	510	
Special Naphthas	--	--	8,479	2,967	-106	--	-62	--	--	11,402	788	
Lubricants	--	--	31,898	8,607	-5,655	--	-1,511	--	19,071	17,290	8,158	
Waxes	--	--	1,165	276	--	--	-4	--	184	1,261	270	
Petroleum Coke	--	--	110,307	2,354	7,600	--	-360	--	103,370	17,250	3,486	
Marketable	--	--	85,256	2,354	7,600	--	-360	--	103,370	-7,801	3,486	
Catalyst	--	--	25,051	--	--	--	--	--	--	25,051	--	
Asphalt and Road Oil	--	--	19,932	59	-866	--	693	--	2,529	15,903	5,611	
Still Gas	--	--	86,762	--	--	--	--	--	--	86,762	--	
Miscellaneous Products	--	--	13,188	--	-55	--	275	--	281	12,577	601	
Total	2,875,469	24,171	1,887,270	493,400	-344,508	222,724	-97,503	1,748,829	2,003,883	1,503,318	1,061,189	

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁷ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates. Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 15. PAD District 3 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, August 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil⁶	8,616	--	--	1,239	903	963	-710	8,922	3,510	0
Hydrocarbon Gas Liquids	3,675	0	498	0	991	--	516	346	1,818	2,484
Natural Gas Liquids	3,675	0	307	0	971	--	524	346	1,818	2,265
Ethane	1,560	--	6	--	588	--	116	--	330	1,708
Propane	1,110	--	163	--	313	--	192	--	1,188	205
Normal Butane	257	--	145	--	139	--	166	45	289	41
Isobutane	329	--	-7	--	34	--	24	141	7	184
Natural Gasoline	419	0	--	0	-103	--	27	160	3	126
Refinery Olefins	--	--	191	--	20	--	-8	--	--	219
Ethylene	--	--	0	--	--	--	0	--	--	0
Propylene	--	--	206	--	20	--	-6	--	--	232
Normal Butylene	--	--	-14	--	--	--	-3	--	--	-11
Isobutylene	--	--	-2	--	--	--	0	--	--	-2
Other Liquids	--	100	--	435	-1,950	-101	-139	-1,832	193	263
Hydrogen/Biofuels/Other Hydrocarbons	--	100	--	2	133	111	-17	285	22	56
Hydrogen	--	--	--	--	--	129	--	129	--	0
Biofuels (including Fuel Ethanol)	--	100	--	2	133	-18	-17	157	22	56
Fuel Ethanol	--	24	--	--	154	-18	-6	148	18	0
Biofuels (excluding Fuel Ethanol) ⁷	--	77	--	2	-21	--	-11	9	4	56
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	370	23	--	-29	98	116	207
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	63	-2,106	-212	-93	-2,216	55	0
Reformulated	--	--	--	13	-482	9	-86	-374	0	0
Conventional	--	--	--	50	-1,623	-221	-7	-1,842	55	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	1	--	0
Finished Petroleum Products	--	0	7,512	196	-1,456	229	-56	--	3,065	3,471
Finished Motor Gasoline	--	0	2,194	--	-88	229	3	--	929	1,404
Reformulated	--	--	460	--	--	25	--	--	--	485
Conventional	--	0	1,734	--	-88	204	3	--	929	918
Finished Aviation Gasoline	--	--	11	--	-3	--	-4	--	--	12
Kerosene-Type Jet Fuel	--	--	843	--	-549	--	-17	--	184	127
Kerosene	--	--	9	--	--	--	-1	--	7	3
Distillate Fuel Oil	--	0	3,036	--	-850	--	-4	--	1,347	843
15 ppm sulfur and under	--	0	2,843	--	-822	--	-13	--	1,162	871
Greater than 15 ppm to 500 ppm sulfur	--	0	80	--	-2	--	-5	--	103	-21
Greater than 500 ppm sulfur	--	--	113	--	-26	--	13	--	82	-8
Residual Fuel Oil	--	--	112	99	25	--	-1	--	86	151
Less than 0.31 percent sulfur	--	--	36	--	0	--	10	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	47	--	10	--	-2	--	NA	NA
Greater than 1.00 percent sulfur	--	--	30	99	15	--	-9	--	NA	NA
Petrochemical Feedstocks	--	--	185	7	2	--	-2	--	--	197
Naphtha for Petro. Feed. Use	--	--	91	6	2	--	2	--	--	96
Other Oils for Petro. Feed. Use	--	--	94	1	1	--	-4	--	--	100
Special Naphthas	--	--	31	34	2	--	-2	--	--	69
Lubricants	--	--	107	44	-21	--	-13	--	52	91
Waxes	--	--	5	1	--	--	0	--	1	5
Petroleum Coke	--	--	464	12	34	--	-16	--	441	85
Marketable	--	--	360	12	34	--	-16	--	441	-20
Catalyst	--	--	105	--	--	--	--	--	--	105
Asphalt and Road Oil	--	--	91	--	-9	--	1	--	16	65
Still Gas	--	--	368	--	--	--	--	--	--	368
Miscellaneous Products	--	--	55	--	--	--	1	--	1	52
Total	12,292	100	8,010	1,870	-1,513	1,092	-389	7,435	8,586	6,218

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁷ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 16. PAD District 3 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-August 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil⁶	8,324	--	--	1,338	1,007	790	-571	8,693	3,337	0
Hydrocarbon Gas Liquids	3,509	0	466	0	914	--	116	351	1,818	2,605
Natural Gas Liquids	3,509	0	257	0	896	--	116	351	1,818	2,377
Ethane	1,547	--	7	--	577	--	-50	--	309	1,872
Propane	1,051	--	157	0	275	--	42	--	1,201	240
Normal Butane	241	--	99	--	124	--	99	77	298	-9
Isobutane	309	--	-6	--	19	--	6	136	5	175
Natural Gasoline	361	0	--	0	-100	--	20	138	5	99
Refinery Olefins	--	--	209	0	18	--	-1	--	--	228
Ethylene	--	--	0	--	--	--	0	--	--	0
Propylene	--	--	218	--	18	--	-1	--	--	236
Normal Butylene	--	--	-7	0	--	--	0	--	--	-7
Isobutylene	--	--	-1	--	--	--	0	--	--	-1
Other Liquids	--	100	--	477	-1,867	22	32	-1,847	360	187
Hydrogen/Biofuels/Other Hydrocarbons	--	100	--	2	157	149	-1	286	66	57
Hydrogen	--	--	--	--	--	127	--	127	--	0
Biofuels (including Fuel Ethanol)	--	100	--	2	157	22	-1	159	66	57
Fuel Ethanol	--	23	--	--	165	22	1	147	63	0
Biofuels (excluding Fuel Ethanol) ⁷	--	77	--	2	-8	--	-2	12	3	57
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	421	17	--	22	48	239	129
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	54	-2,041	-127	11	-2,180	55	0
Reformulated	--	--	--	2	-393	94	5	-303	0	0
Conventional	--	--	--	52	-1,648	-221	5	-1,877	55	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	-1	--	1
Finished Petroleum Products	--	0	7,301	215	-1,471	105	23	--	2,732	3,395
Finished Motor Gasoline	--	0	2,155	1	-92	105	1	--	809	1,360
Reformulated	--	--	451	--	--	-81	--	--	--	370
Conventional	--	0	1,705	1	-92	186	1	--	809	990
Finished Aviation Gasoline	--	--	9	0	-3	--	0	--	--	7
Kerosene-Type Jet Fuel	--	--	841	--	-517	--	3	--	158	163
Kerosene	--	--	2	--	-1	--	1	--	6	-6
Distillate Fuel Oil	--	0	2,904	1	-890	--	11	--	1,161	843
15 ppm sulfur and under	--	0	2,714	1	-858	--	4	--	995	858
Greater than 15 ppm to 500 ppm sulfur	--	0	80	0	-5	--	1	--	84	-9
Greater than 500 ppm sulfur	--	--	110	0	-27	--	7	--	82	-6
Residual Fuel Oil	--	--	73	146	25	--	10	--	82	153
Less than 0.31 percent sulfur	--	--	30	4	1	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	40	8	13	--	3	--	NA	NA
Greater than 1.00 percent sulfur	--	--	2	135	11	--	7	--	NA	NA
Petrochemical Feedstocks	--	--	198	7	2	--	0	--	--	208
Naphtha for Petro. Feed. Use	--	--	114	6	2	--	0	--	--	122
Other Oils for Petro. Feed. Use	--	--	85	1	0	--	0	--	--	86
Special Naphthas	--	--	35	12	0	--	0	--	--	47
Lubricants	--	--	131	35	-23	--	-6	--	78	71
Waxes	--	--	5	1	--	--	0	--	1	5
Petroleum Coke	--	--	454	10	31	--	-1	--	425	71
Marketable	--	--	351	10	31	--	-1	--	425	-32
Catalyst	--	--	103	--	--	--	--	--	--	103
Asphalt and Road Oil	--	--	82	0	-4	--	3	--	10	65
Still Gas	--	--	357	--	--	--	--	--	--	357
Miscellaneous Products	--	--	54	--	0	--	1	--	1	52
Total	11,833	99	7,767	2,030	-1,418	917	-401	7,197	8,246	6,186

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁷ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 17. PAD District 4 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, August 2022
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	27,339	--	--	11,420	-20,386	-44	-872	19,202	--	0	22,772
Hydrocarbon Gas Liquids	16,821	-10	581	301	-15,065	--	462	468	13	1,686	7,992
Natural Gas Liquids	16,821	-10	439	301	-15,065	--	450	468	13	1,556	7,890
Ethane	5,054	--	--	--	-5,252	--	-169	--	--	-29	1,235
Propane	5,846	--	228	283	-4,891	--	279	--	1	1,186	2,727
Normal Butane	2,339	--	213	--	-1,980	--	308	136	--	128	2,734
Isobutane	1,062	--	-2	18	-951	--	-22	161	--	-12	415
Natural Gasoline	2,520	-10	--	--	-1,991	--	54	171	12	282	779
Refinery Olefins	--	--	142	--	--	--	12	--	--	130	102
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	41	--	--	--	4	--	--	37	5
Normal Butylene	--	--	101	--	--	--	8	--	--	93	97
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	782	--	35	780	442	-554	2,096	23	474	8,644
Hydrogen/Biofuels/Other Hydrocarbons	--	782	--	6	410	411	-13	1,305	23	294	603
Hydrogen	--	--	--	--	--	207	--	207	--	0	--
Biofuels (including Fuel Ethanol)	--	782	--	6	410	204	-13	1,098	23	294	603
Fuel Ethanol	--	410	--	--	389	204	4	999	0	0	385
Biofuels (excluding Fuel Ethanol) ⁶	--	372	--	6	21	--	-17	99	23	294	217
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	17	--	--	-158	-5	--	180	2,689
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	12	370	31	-383	796	--	0	5,352
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	12	370	31	-383	796	--	0	5,352
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	-1	22,057	178	-302	-235	-617	--	18	22,296	7,563
Finished Motor Gasoline	--	--	11,465	--	-361	-235	-42	--	0	10,910	1,041
Reformulated	--	--	--	--	--	--	1	--	--	-1	--
Conventional	--	--	11,465	--	-361	-235	-43	--	0	10,911	1,040
Finished Aviation Gasoline	--	--	8	--	--	--	1	--	--	7	9
Kerosene-Type Jet Fuel	--	--	1,132	20	691	--	26	--	0	1,817	740
Kerosene	--	--	--	--	--	--	0	--	--	0	2
Distillate Fuel Oil	--	-1	6,570	104	166	--	-174	--	--	7,014	3,724
15 ppm sulfur and under	--	-1	6,528	104	166	--	-132	--	--	6,930	3,552
Greater than 15 ppm to 500 ppm sulfur	--	--	57	--	--	--	-26	--	--	83	138
Greater than 500 ppm sulfur	--	--	-15	--	--	--	-16	--	--	1	34
Residual Fuel Oil	--	--	325	--	--	--	-14	--	--	339	211
Less than 0.31 percent sulfur	--	--	163	--	--	--	1	--	NA	NA	29
0.31 to 1.00 percent sulfur	--	--	30	--	--	--	-17	--	NA	NA	20
Greater than 1.00 percent sulfur	--	--	132	--	--	--	2	--	NA	NA	162
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	14	-14	--
Waxes	--	--	--	--	--	--	--	--	0	0	--
Petroleum Coke	--	--	674	--	-351	--	-26	--	0	349	148
Marketable	--	--	467	--	-351	--	-26	--	0	142	148
Catalyst	--	--	207	--	--	--	--	--	--	207	--
Asphalt and Road Oil	--	--	1,004	53	-447	--	-389	--	3	996	1,665
Still Gas	--	--	740	--	--	--	--	--	--	740	--
Miscellaneous Products	--	--	139	1	--	--	1	--	--	139	23
Total	44,160	772	22,638	11,934	-34,972	163	-1,581	21,766	54	24,456	46,972

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 18. PAD District 4 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-August 2022
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	206,629	--	--	93,206	-154,761	-6,752	-1,554	139,877	0	0	22,772
Hydrocarbon Gas Liquids	132,333	-81	3,229	2,887	-122,007	--	814	3,908	368	11,270	7,992
Natural Gas Liquids	132,333	-81	2,187	2,887	-122,007	--	788	3,908	368	10,254	7,890
Ethane	43,500	--	--	--	-44,826	--	-64	--	1	-1,263	1,235
Propane	45,132	--	1,691	2,726	-39,074	--	-106	--	8	10,573	2,727
Normal Butane	17,760	--	528	139	-15,196	--	915	1,352	23	941	2,734
Isobutane	7,954	--	-32	22	-8,123	--	-23	1,368	--	-1,524	415
Natural Gasoline	17,987	-81	--	--	-14,788	--	66	1,188	336	1,527	779
Refinery Olefins	--	--	1,042	--	--	--	26	--	--	1,016	102
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	305	--	--	--	2	--	--	303	5
Normal Butylene	--	--	737	--	--	--	24	--	--	713	97
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	5,680	--	667	7,531	2,085	-1,112	14,059	95	2,921	8,644
Hydrogen/Biofuels/Other Hydrocarbons	--	5,680	--	68	2,845	2,837	182	9,543	92	1,613	603
Hydrogen	--	--	--	--	--	1,773	--	1,773	--	0	--
Biofuels (including Fuel Ethanol)	--	5,680	--	68	2,845	1,064	182	7,770	92	1,613	603
Fuel Ethanol	--	3,471	--	7	2,671	1,064	6	7,205	2	0	385
Biofuels (excluding Fuel Ethanol) ⁶	--	2,209	--	61	174	--	176	565	90	1,613	217
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	147	--	--	-81	-1,082	2	1,308	2,689
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	452	4,686	-751	-1,213	5,598	2	0	5,352
Reformulated	--	--	--	--	40	-40	--	--	--	--	--
Conventional	--	--	--	452	4,646	-711	-1,213	5,598	2	0	5,352
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	-4	161,125	2,434	-1,071	-312	-1,172	--	122	163,222	7,563
Finished Motor Gasoline	--	--	83,312	20	-2,618	-312	-541	--	7	80,935	1,041
Reformulated	--	--	--	--	--	44	1	--	--	43	--
Conventional	--	--	83,312	20	-2,618	-357	-542	--	7	80,892	1,040
Finished Aviation Gasoline	--	--	32	3	--	--	0	--	--	35	9
Kerosene-Type Jet Fuel	--	--	8,329	304	5,338	--	48	--	1	13,922	740
Kerosene	--	--	2	--	--	--	1	--	--	1	2
Distillate Fuel Oil	--	-4	47,951	1,472	922	--	-802	--	0	51,143	3,724
15 ppm sulfur and under	--	-4	47,477	1,469	922	--	-745	--	0	50,609	3,552
Greater than 15 ppm to 500 ppm sulfur	--	--	506	--	--	--	-25	--	--	531	138
Greater than 500 ppm sulfur	--	--	-32	3	--	--	-32	--	--	3	34
Residual Fuel Oil	--	--	2,606	--	--	--	-1	--	--	2,607	211
Less than 0.31 percent sulfur	--	--	1,326	--	--	--	7	--	NA	NA	29
0.31 to 1.00 percent sulfur	--	--	322	--	--	--	16	--	NA	NA	20
Greater than 1.00 percent sulfur	--	--	958	--	--	--	-24	--	NA	NA	162
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	96	-96	--
Waxes	--	--	--	--	--	--	--	--	1	-1	--
Petroleum Coke	--	--	4,946	--	-1,344	--	11	--	0	3,590	148
Marketable	--	--	3,288	--	-1,344	--	11	--	0	1,932	148
Catalyst	--	--	1,658	--	--	--	--	--	--	1,658	--
Asphalt and Road Oil	--	--	7,797	627	-3,369	--	106	--	16	4,933	1,665
Still Gas	--	--	5,167	--	--	--	--	--	--	5,167	--
Miscellaneous Products	--	--	983	8	--	--	6	--	0	985	23
Total	338,962	5,595	164,354	99,194	-270,308	-4,979	-3,023	157,844	585	177,413	46,972

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 19. PAD District 4 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, August 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	882	--	--	368	-658	-1	-28	619	--	0
Hydrocarbon Gas Liquids	543	0	19	10	-486	--	15	15	0	54
Natural Gas Liquids	543	0	14	10	-486	--	15	15	0	50
Ethane	163	--	--	--	-169	--	-5	--	--	-1
Propane	189	--	7	9	-158	--	9	--	0	38
Normal Butane	75	--	7	--	-64	--	10	4	--	4
Isobutane	34	--	0	1	-31	--	-1	5	--	0
Natural Gasoline	81	0	--	--	-64	--	2	6	0	9
Refinery Olefins	--	--	5	--	--	--	0	--	--	4
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1	--	--	--	0	--	--	1
Normal Butylene	--	--	3	--	--	--	0	--	--	3
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	25	--	1	25	14	-18	68	1	15
Hydrogen/Biofuels/Other Hydrocarbons	--	25	--	0	13	13	0	42	1	9
Hydrogen	--	--	--	--	--	7	--	7	--	0
Biofuels (including Fuel Ethanol)	--	25	--	0	13	7	0	35	1	9
Fuel Ethanol	--	13	--	--	13	7	0	32	0	0
Biofuels (excluding Fuel Ethanol) ⁶	--	12	--	0	1	--	-1	3	1	9
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	1	--	--	-5	0	--	6
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	0	12	1	-12	26	--	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	0	12	1	-12	26	--	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	0	712	6	-10	-8	-20	--	1	719
Finished Motor Gasoline	--	--	370	--	-12	-8	-1	--	0	352
Reformulated	--	--	--	--	--	--	0	--	--	0
Conventional	--	--	370	--	-12	-8	-1	--	0	352
Finished Aviation Gasoline	--	--	0	--	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	37	1	22	--	1	--	0	59
Kerosene	--	--	--	--	--	--	0	--	--	0
Distillate Fuel Oil	--	0	212	3	5	--	-6	--	--	226
15 ppm sulfur and under	--	0	211	3	5	--	-4	--	--	224
Greater than 15 ppm to 500 ppm sulfur	--	--	2	--	--	--	-1	--	--	3
Greater than 500 ppm sulfur	--	--	0	--	--	--	-1	--	--	0
Residual Fuel Oil	--	--	10	--	--	--	0	--	--	11
Less than 0.31 percent sulfur	--	--	5	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	-1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	4	--	--	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	0	0
Waxes	--	--	--	--	--	--	--	--	0	0
Petroleum Coke	--	--	22	--	-11	--	-1	--	0	11
Marketable	--	--	15	--	-11	--	-1	--	0	5
Catalyst	--	--	7	--	--	--	--	--	--	7
Asphalt and Road Oil	--	--	32	2	-14	--	-13	--	0	32
Still Gas	--	--	24	--	--	--	--	--	--	24
Miscellaneous Products	--	--	4	0	--	--	0	--	--	4
Total	1,425	25	730	385	-1,128	5	-51	702	2	789

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 20. PAD District 4 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-August 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	850	--	--	384	-637	-28	-6	576	0	0
Hydrocarbon Gas Liquids	545	0	13	12	-502	--	3	16	2	46
Natural Gas Liquids	545	0	9	12	-502	--	3	16	2	42
Ethane	179	--	--	--	-184	--	0	--	0	-5
Propane	186	--	7	11	-161	--	0	--	0	44
Normal Butane	73	--	2	1	-63	--	4	6	0	4
Isobutane	33	--	0	0	-33	--	0	6	--	-6
Natural Gasoline	74	0	--	--	-61	--	0	5	1	6
Refinery Olefins	--	--	4	--	--	--	0	--	--	4
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1	--	--	--	0	--	--	1
Normal Butylene	--	--	3	--	--	--	0	--	--	3
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	23	--	3	31	9	-5	58	0	12
Hydrogen/Biofuels/Other Hydrocarbons	--	23	--	0	12	12	1	39	0	7
Hydrogen	--	--	--	--	--	7	--	7	--	0
Biofuels (including Fuel Ethanol)	--	23	--	0	12	4	1	32	0	7
Fuel Ethanol	--	14	--	0	11	4	0	30	0	0
Biofuels (excluding Fuel Ethanol) ⁶	--	9	--	0	1	--	1	2	0	7
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	1	--	--	0	-4	0	5
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	2	19	-3	-5	23	0	0
Reformulated	--	--	--	--	0	0	--	--	--	--
Conventional	--	--	--	2	19	-3	-5	23	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	0	663	10	-4	-1	-5	--	1	672
Finished Motor Gasoline	--	--	343	0	-11	-1	-2	--	0	333
Reformulated	--	--	--	--	--	0	0	--	--	0
Conventional	--	--	343	0	-11	-1	-2	--	0	333
Finished Aviation Gasoline	--	--	0	0	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	34	1	22	--	0	--	0	57
Kerosene	--	--	0	--	--	--	0	--	--	0
Distillate Fuel Oil	--	0	197	6	4	--	-3	--	0	210
15 ppm sulfur and under	--	0	195	6	4	--	-3	--	0	208
Greater than 15 ppm to 500 ppm sulfur	--	--	2	--	--	--	0	--	--	2
Greater than 500 ppm sulfur	--	--	0	0	--	--	0	--	--	0
Residual Fuel Oil	--	--	11	--	--	--	0	--	--	11
Less than 0.31 percent sulfur	--	--	5	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	4	--	--	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	0	0
Waxes	--	--	--	--	--	--	--	--	0	0
Petroleum Coke	--	--	20	--	-6	--	0	--	0	15
Marketable	--	--	14	--	-6	--	0	--	0	8
Catalyst	--	--	7	--	--	--	--	--	--	7
Asphalt and Road Oil	--	--	32	3	-14	--	0	--	0	20
Still Gas	--	--	21	--	--	--	--	--	--	21
Miscellaneous Products	--	--	4	0	--	--	0	--	0	4
Total	1,395	23	676	408	-1,112	-20	-12	650	2	730

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 21. PAD District 5 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, August 2022
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	23,405	--	--	35,525	2,190	4,780	-1,554	67,454	--	0	48,563
Hydrocarbon Gas Liquids	1,941	-6	2,243	1,462	691	--	777	2,164	1,669	1,722	4,562
Natural Gas Liquids	1,941	-6	2,103	1,462	691	--	770	2,164	1,669	1,589	4,520
Ethane	1	--	--	--	--	--	--	--	--	1	--
Propane	256	--	1,049	819	287	--	375	--	877	1,159	1,653
Normal Butane	545	--	1,008	578	287	--	459	476	764	719	2,488
Isobutane	184	--	46	65	117	--	-68	817	3	-340	333
Natural Gasoline	955	-6	--	--	--	--	4	871	25	49	46
Refinery Olefins	--	--	140	--	--	--	7	--	--	133	42
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	171	--	--	--	-1	--	--	172	9
Normal Butylene	--	--	-31	--	--	--	8	--	--	-39	33
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	981	--	2,875	10,742	-1,204	-2,852	13,559	920	1,767	49,025
Hydrogen/Biofuels/Other Hydrocarbons	--	981	--	919	6,104	1,095	-56	7,001	552	1,601	5,184
Hydrogen	--	--	--	--	--	1,440	--	1,440	--	0	--
Biofuels (including Fuel Ethanol)	--	981	--	919	6,104	-345	-56	5,561	552	1,601	5,184
Fuel Ethanol	--	216	--	445	5,101	-345	443	4,751	223	0	2,885
Biofuels (excluding Fuel Ethanol) ⁶	--	766	--	474	1,002	--	-499	810	329	1,601	2,299
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	1,910	--	--	105	1,450	189	166	19,130
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	46	4,638	-2,299	-2,901	5,108	178	0	24,711
Reformulated	--	0	--	--	1,954	-475	-1,680	3,159	--	0	12,097
Conventional	--	--	--	46	2,684	-1,824	-1,221	1,949	178	0	12,614
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	78	85,387	4,164	1,823	2,644	-2,635	--	7,127	89,604	32,700
Finished Motor Gasoline	--	71	45,910	413	81	2,644	-300	--	626	48,793	1,888
Reformulated	--	--	32,072	--	--	304	0	--	--	32,376	18
Conventional	--	71	13,838	413	81	2,340	-300	--	626	16,417	1,870
Finished Aviation Gasoline	--	--	58	1	--	--	10	--	--	49	222
Kerosene-Type Jet Fuel	--	9	13,347	2,102	322	--	-801	--	765	15,817	8,948
Kerosene	--	--	0	--	--	--	-1	--	199	-198	4
Distillate Fuel Oil	--	-2	14,618	1,288	918	--	-1,213	--	2,028	16,007	12,004
15 ppm sulfur and under	--	-2	13,827	974	918	--	-1,177	--	1,962	14,932	11,112
Greater than 15 ppm to 500 ppm sulfur	--	--	359	314	--	--	27	--	6	640	277
Greater than 500 ppm sulfur	--	--	432	--	--	--	-63	--	60	435	615
Residual Fuel Oil	--	--	2,382	118	--	--	138	--	332	2,030	5,338
Less than 0.31 percent sulfur	--	--	59	--	--	--	-45	--	NA	NA	1,175
0.31 to 1.00 percent sulfur	--	--	635	43	--	--	3	--	NA	NA	671
Greater than 1.00 percent sulfur	--	--	1,688	75	--	--	180	--	NA	NA	3,492
Petrochemical Feedstocks	--	--	--	70	--	--	0	--	--	70	2
Naphtha for Petro. Feed. Use	--	--	--	70	--	--	0	--	--	70	2
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	17	--	--	--	-3	--	--	20	23
Lubricants	--	--	112	5	--	--	-205	--	152	170	559
Waxes	--	--	--	25	--	--	--	--	5	20	--
Petroleum Coke	--	--	3,868	--	93	--	16	--	2,999	945	1,554
Marketable	--	--	2,929	--	93	--	16	--	2,999	6	1,554
Catalyst	--	--	939	--	--	--	--	--	--	939	--
Asphalt and Road Oil	--	--	918	142	409	--	-273	--	21	1,721	2,082
Still Gas	--	--	3,782	--	--	--	--	--	--	3,782	--
Miscellaneous Products	--	--	375	--	--	--	-3	--	0	378	77
Total	25,346	1,053	87,630	44,026	15,446	6,220	-6,264	83,177	9,715	93,093	134,850

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 22. PAD District 5 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-August 2022
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	190,286	--	--	284,446	19,313	22,259	1,815	512,941	1,548	0	48,563
Hydrocarbon Gas Liquids	17,255	-46	14,076	10,823	6,939	--	966	18,120	12,919	17,043	4,562
Natural Gas Liquids	17,255	-46	12,797	10,823	6,939	--	974	18,120	12,919	15,756	4,520
Ethane	7	--	--	--	--	--	0	--	5	2	--
Propane	1,951	--	7,891	6,338	2,821	--	-17	--	6,117	12,901	1,653
Normal Butane	4,615	--	4,345	4,420	3,002	--	975	5,262	6,593	3,552	2,488
Isobutane	2,428	--	561	65	1,116	--	-1	5,278	10	-1,117	333
Natural Gasoline	8,254	-46	--	--	--	--	17	7,580	194	418	46
Refinery Olefins	--	--	1,279	--	--	--	-8	--	--	1,287	42
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1,418	--	--	--	-7	--	--	1,425	9
Normal Butylene	--	--	-139	--	--	--	-1	--	--	-138	33
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	8,021	--	30,466	75,781	-931	-2,476	95,526	6,441	13,846	49,025
Hydrogen/Biofuels/Other Hydrocarbons	--	8,022	--	5,719	39,668	12,507	191	52,588	4,209	8,927	5,184
Hydrogen	--	--	--	--	--	10,890	--	10,890	--	0	--
Biofuels (including Fuel Ethanol)	--	8,022	--	5,719	39,668	1,617	191	41,698	4,209	8,927	5,184
Fuel Ethanol	--	1,790	--	945	33,746	1,617	528	35,753	1,817	0	2,885
Biofuels (excluding Fuel Ethanol) ⁶	--	6,232	--	4,774	5,922	--	-336	5,945	2,392	8,927	2,299
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	15,968	276	--	197	10,041	1,087	4,919	19,130
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	8,779	35,837	-13,438	-2,864	32,897	1,145	0	24,711
Reformulated	--	0	--	1,289	14,856	1,724	-1,734	19,592	11	0	12,097
Conventional	--	--	--	7,490	20,981	-15,162	-1,130	13,305	1,134	0	12,614
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	465	652,683	37,886	16,480	11,821	835	--	58,522	659,978	32,700
Finished Motor Gasoline	--	411	350,362	5,957	684	11,821	-186	--	6,964	362,458	1,888
Reformulated	--	--	244,072	--	--	922	2	--	--	244,992	18
Conventional	--	411	106,290	5,957	684	10,900	-188	--	6,964	117,466	1,870
Finished Aviation Gasoline	--	--	194	17	--	--	-94	--	--	305	222
Kerosene-Type Jet Fuel	--	65	96,223	22,232	1,985	--	882	--	5,116	114,506	8,948
Kerosene	--	--	53	18	--	--	-31	--	207	-105	4
Distillate Fuel Oil	--	-11	115,713	6,145	10,343	--	-409	--	15,997	116,602	12,004
15 ppm sulfur and under	--	-11	109,199	4,694	10,343	--	-498	--	12,422	112,301	11,112
Greater than 15 ppm to 500 ppm sulfur	--	--	2,522	1,260	--	--	10	--	1,525	2,247	277
Greater than 500 ppm sulfur	--	--	3,992	191	--	--	79	--	2,050	2,054	615
Residual Fuel Oil	--	--	19,753	2,170	--	--	988	--	3,716	17,219	5,338
Less than 0.31 percent sulfur	--	--	346	--	--	--	86	--	NA	NA	1,175
0.31 to 1.00 percent sulfur	--	--	5,038	1,114	--	--	236	--	NA	NA	671
Greater than 1.00 percent sulfur	--	--	14,369	1,056	--	--	666	--	NA	NA	3,492
Petrochemical Feedstocks	--	--	--	280	--	--	0	--	--	280	2
Naphtha for Petro. Feed. Use	--	--	--	280	--	--	0	--	--	280	2
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	269	--	--	--	5	--	--	264	23
Lubricants	--	--	2,604	257	-212	--	-390	--	2,054	985	559
Waxes	--	--	--	269	--	--	--	--	31	238	--
Petroleum Coke	--	--	30,366	--	-268	--	219	--	24,202	5,676	1,554
Marketable	--	--	23,255	--	-268	--	219	--	24,202	-1,435	1,554
Catalyst	--	--	7,111	--	--	--	--	--	--	7,111	--
Asphalt and Road Oil	--	--	6,293	541	3,948	--	-140	--	233	10,689	2,082
Still Gas	--	--	27,824	--	--	--	--	--	--	27,824	--
Miscellaneous Products	--	--	3,029	--	--	--	-10	--	2	3,037	77
Total	207,541	8,441	666,759	363,621	118,513	33,149	1,140	626,587	79,431	690,866	134,850

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 23. PAD District 5 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, August 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	755	--	--	1,146	71	154	-50	2,176	--	0
Hydrocarbon Gas Liquids	63	0	72	47	22	--	25	70	54	56
Natural Gas Liquids	63	0	68	47	22	--	25	70	54	51
Ethane	0	--	--	--	--	--	--	--	--	0
Propane	8	--	34	26	9	--	12	--	28	37
Normal Butane	18	--	33	19	9	--	15	15	25	23
Isobutane	6	--	1	2	4	--	-2	26	0	-11
Natural Gasoline	31	0	--	--	--	--	0	28	1	2
Refinery Olefins	--	--	5	--	--	--	0	--	--	4
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	6	--	--	--	0	--	--	6
Normal Butylene	--	--	-1	--	--	--	0	--	--	-1
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	32	--	93	347	-39	-92	437	30	57
Hydrogen/Biofuels/Other Hydrocarbons	--	32	--	30	197	35	-2	226	18	52
Hydrogen	--	--	--	--	--	46	--	46	--	0
Biofuels (including Fuel Ethanol)	--	32	--	30	197	-11	-2	179	18	52
Fuel Ethanol	--	7	--	14	165	-11	14	153	7	0
Biofuels (excluding Fuel Ethanol) ⁶	--	25	--	15	32	--	-16	26	11	52
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	62	--	--	3	47	6	5
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	1	150	-74	-94	165	6	0
Reformulated	--	0	--	--	63	-15	-54	102	--	0
Conventional	--	--	--	1	87	-59	-39	63	6	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	3	2,754	134	59	85	-85	--	230	2,890
Finished Motor Gasoline	--	2	1,481	13	3	85	-10	--	20	1,574
Reformulated	--	--	1,035	--	--	10	0	--	--	1,044
Conventional	--	2	446	13	3	75	-10	--	20	530
Finished Aviation Gasoline	--	--	2	0	--	--	0	--	--	2
Kerosene-Type Jet Fuel	--	0	431	68	10	--	-26	--	25	510
Kerosene	--	--	0	--	--	--	0	--	6	-6
Distillate Fuel Oil	--	0	472	42	30	--	-39	--	65	516
15 ppm sulfur and under	--	0	446	31	30	--	-38	--	63	482
Greater than 15 ppm to 500 ppm sulfur	--	--	12	10	--	--	1	--	0	21
Greater than 500 ppm sulfur	--	--	14	--	--	--	-2	--	2	14
Residual Fuel Oil	--	--	77	4	--	--	4	--	11	65
Less than 0.31 percent sulfur	--	--	2	--	--	--	-1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	20	1	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	54	2	--	--	6	--	NA	NA
Petrochemical Feedstocks	--	--	--	2	--	--	0	--	--	2
Naphtha for Petro. Feed. Use	--	--	--	2	--	--	0	--	--	2
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	4	0	--	--	-7	--	5	5
Waxes	--	--	--	1	--	--	--	--	0	1
Petroleum Coke	--	--	125	--	3	--	1	--	97	30
Marketable	--	--	94	--	3	--	1	--	97	0
Catalyst	--	--	30	--	--	--	--	--	--	30
Asphalt and Road Oil	--	--	30	5	13	--	-9	--	1	56
Still Gas	--	--	122	--	--	--	--	--	--	122
Miscellaneous Products	--	--	12	--	--	--	0	--	0	12
Total	818	34	2,827	1,420	498	201	-202	2,683	313	3,003

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 24. PAD District 5 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-August 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	783	--	--	1,171	79	92	7	2,111	6	0
Hydrocarbon Gas Liquids	71	0	58	45	29	--	4	75	53	70
Natural Gas Liquids	71	0	53	45	29	--	4	75	53	65
Ethane	0	--	--	--	--	--	0	--	0	0
Propane	8	--	32	26	12	--	0	--	25	53
Normal Butane	19	--	18	18	12	--	4	22	27	15
Isobutane	10	--	2	0	5	--	0	22	0	-5
Natural Gasoline	34	0	--	--	--	--	0	31	1	2
Refinery Olefins	--	--	5	--	--	--	0	--	--	5
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	6	--	--	--	0	--	--	6
Normal Butylene	--	--	-1	--	--	--	0	--	--	-1
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	33	--	125	312	-4	-10	393	27	57
Hydrogen/Biofuels/Other Hydrocarbons	--	33	--	24	163	51	1	216	17	37
Hydrogen	--	--	--	--	--	45	--	45	--	0
Biofuels (including Fuel Ethanol)	--	33	--	24	163	7	1	172	17	37
Fuel Ethanol	--	7	--	4	139	7	2	147	7	0
Biofuels (excluding Fuel Ethanol) ⁶	--	26	--	20	24	--	-1	24	10	37
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	66	1	--	1	41	4	20
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	36	147	-55	-12	135	5	0
Reformulated	--	0	--	5	61	7	-7	81	0	0
Conventional	--	--	--	31	86	-62	-5	55	5	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	2	2,686	156	68	49	3	--	241	2,716
Finished Motor Gasoline	--	2	1,442	25	3	49	-1	--	29	1,492
Reformulated	--	--	1,004	--	--	4	0	--	--	1,008
Conventional	--	2	437	25	3	45	-1	--	29	483
Finished Aviation Gasoline	--	--	1	0	--	--	0	--	--	1
Kerosene-Type Jet Fuel	--	0	396	91	8	--	4	--	21	471
Kerosene	--	--	0	0	--	--	0	--	1	0
Distillate Fuel Oil	--	0	476	25	43	--	-2	--	66	480
15 ppm sulfur and under	--	0	449	19	43	--	-2	--	51	462
Greater than 15 ppm to 500 ppm sulfur	--	--	10	5	--	--	0	--	6	9
Greater than 500 ppm sulfur	--	--	16	1	--	--	0	--	8	8
Residual Fuel Oil	--	--	81	9	--	--	4	--	15	71
Less than 0.31 percent sulfur	--	--	1	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	21	5	--	--	1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	59	4	--	--	3	--	NA	NA
Petrochemical Feedstocks	--	--	--	1	--	--	0	--	--	1
Naphtha for Petro. Feed. Use	--	--	--	1	--	--	0	--	--	1
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	11	1	-1	--	-2	--	8	4
Waxes	--	--	--	1	--	--	--	--	0	1
Petroleum Coke	--	--	125	--	-1	--	1	--	100	23
Marketable	--	--	96	--	-1	--	1	--	100	-6
Catalyst	--	--	29	--	--	--	--	--	--	29
Asphalt and Road Oil	--	--	26	2	16	--	-1	--	1	44
Still Gas	--	--	115	--	--	--	--	--	--	115
Miscellaneous Products	--	--	12	--	--	--	0	--	0	12
Total	854	35	2,744	1,496	488	136	5	2,579	327	2,843

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 25. Crude Oil Supply, Disposition, and Ending Stocks by PAD District, August 2022
(Thousand Barrels, Except Where Noted)

Process	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Supply							
Field Production	1,851	51,528	267,110	27,339	23,405	371,233	11,975
Alaskan	--	--	--	--	--	12,808	413
Lower 48 States	--	--	--	--	--	358,425	11,562
Imports (PAD District of Entry)	20,688	90,175	38,424	11,420	35,525	196,232	6,330
Commercial	20,688	90,175	38,424	11,420	35,525	196,232	6,330
Strategic Petroleum Reserve (SPR)	--	--	--	--	--	--	--
Net Receipts	2,541	-12,326	27,981	-20,386	2,190	--	--
Adjustments ¹	2,544	-10,989	29,859	-44	4,780	26,150	844
Disposition							
Stock Change ²	-407	-2,585	-22,003	-872	-1,554	-27,421	-885
Commercial	-407	-2,585	946	-872	-1,554	-4,472	-144
SPR	--	--	-22,949	--	--	-22,949	-740
Refinery Inputs	25,131	119,440	276,575	19,202	67,454	507,802	16,381
Exports	2,899	1,533	108,802	--	--	113,235	3,653
Ending Stocks							
Total	7,044	106,514	679,906	22,772	48,563	864,799	--
Commercial	7,044	106,514	234,849	22,772	48,563	419,742	--
Refinery	5,457	13,395	43,857	2,262	20,291	85,262	--
Tank Farms and Pipelines	1,587	93,119	190,992	20,510	24,945	331,153	--
Cushing, Oklahoma	--	24,714	--	--	--	24,714	--
Lease	--	--	--	--	--	--	--
Alaskan Crude Oil In-Transit by Water	--	--	--	--	3,327	3,327	--
SPR	--	--	445,057	--	--	445,057	--
SPR Stocks							
Percent of Total Crude Oil Stocks (Percent)	--	--	--	--	--	51.5	--
Percent of Total Petroleum Stocks (Percent)	--	--	--	--	--	26.9	--
Days of Total Petroleum Net Imports (Days)	--	--	--	--	--	--	--
SPR Receipts Detail							
Receipts	--	--	--	--	--	--	--
Domestic	--	--	--	--	--	--	--
Imports	--	--	--	--	--	--	--
Imported by SPR	--	--	--	--	--	--	--
Imported for SPR by Others	--	--	--	--	--	--	--
Imports							
PAD District of Entry	20,688	90,175	38,424	11,420	35,525	196,232	6,330
PAD District of Processing	20,479	84,270	47,137	8,585	35,761	196,232	6,330

-- = Not Applicable.

- = No Data Reported.

¹ Crude oil adjustment was previously referred to as Unaccounted-for Crude Oil.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

Notes: Totals may not equal the sum of components due to independent rounding. Values of Domestic Crude Oil Field Production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," and EIA-817, "Monthly Tanker and Barge Movements Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 26. Production of Crude Oil by PAD District and State, August 2022
(Thousand Barrels)

PAD District and State	August 2022		January-August 2022	
	Total	Daily Average	Total	Daily Average
PAD District 1	1,851	60	15,257	63
Florida	107	3	833	3
New York	23	1	148	1
Pennsylvania	391	13	3,342	14
Virginia	0	0	3	0
West Virginia	1,330	43	10,932	45
PAD District 2	51,528	1,662	400,829	1,650
Illinois	593	19	4,607	19
Indiana	153	5	1,143	5
Kansas	2,520	81	19,069	78
Kentucky	173	6	1,499	6
Michigan	389	13	2,950	12
Missouri	6	0	45	0
Nebraska	139	4	1,065	4
North Dakota	32,842	1,059	256,652	1,056
Ohio	1,815	59	13,307	55
Oklahoma	12,803	413	99,742	410
South Dakota	82	3	646	3
Tennessee	13	0	104	0
PAD District 3	267,110	8,616	2,022,806	8,324
Alabama	328	11	2,563	11
Arkansas	381	12	2,950	12
Louisiana	3,138	101	24,253	100
Mississippi	1,013	33	8,419	35
New Mexico	49,001	1,581	362,468	1,492
Texas	157,987	5,096	1,206,925	4,967
Federal Offshore PAD District 3	55,263	1,783	415,227	1,709
PAD District 4	27,339	882	206,629	850
Colorado	13,179	425	104,649	431
Idaho	4	0	22	0
Montana	1,899	61	13,481	55
Utah	4,288	138	29,388	121
Wyoming	7,969	257	59,089	243
PAD District 5	23,405	755	190,286	783
Alaska	12,808	413	106,037	436
South Alaska	305	10	2,336	10
North Slope	12,503	403	103,700	427
Arizona	1	0	4	0
California	10,330	333	82,293	339
Nevada	21	1	155	1
Federal Offshore PAD District 5	246	8	1,798	7
U.S. Total	371,233	11,975	2,835,808	11,670

— = No Data Reported.

Note: Year-to-date totals include revised monthly production estimates by state published in Petroleum Navigator. Crude oil production quantities are estimated by state and summed to the PADD and the U.S. level. State production estimates reported by EIA are normally different from data reported by state agencies. For example, production estimates for Texas reported on table 26 are different from production reported by the Railroad Commission of Texas. See EIA "Today In Energy" article released on July 10, 2015 (<http://www.eia.gov/todayinenergy/detail.cfm?id=22012>) for an explanation of differences in production data for Texas. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," state government agencies, U.S. Department of the Interior, and the Bureau of Ocean Energy Management.

Table 27. Natural Gas Plant Net Production and Stocks of Petroleum Products by PAD and Refining Districts, August 2022
(Thousand Barrels)

Commodity	Production						
	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	9	19,631	19,640	5,156	13,339	16,116	34,611
Natural Gas Liquids	9	19,631	19,640	5,156	13,339	16,116	34,611
Ethane	-	7,846	7,846	1,769	4,043	6,160	11,972
Propane	3	6,848	6,851	2,138	4,674	5,178	11,990
Normal Butane	6	2,020	2,026	443	2,029	1,679	4,151
Isobutane	-	970	970	460	657	975	2,092
Natural Gasoline	-	1,947	1,947	346	1,936	2,124	4,406

Commodity	Production								
	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	92,496	5,113	4,922	445	10,958	113,934	16,821	1,941	186,947
Natural Gas Liquids	92,496	5,113	4,922	445	10,958	113,934	16,821	1,941	186,947
Ethane	39,679	2,592	1,761	82	4,233	48,347	5,054	1	73,220
Propane	27,884	1,300	1,688	131	3,409	34,412	5,846	256	59,355
Normal Butane	9,567	-3,310	513	60	1,150	7,980	2,339	545	17,041
Isobutane	4,979	4,063	416	45	692	10,195	1,062	184	14,503
Natural Gasoline	10,387	468	544	127	1,474	13,000	2,520	955	22,828

Commodity	Stocks						
	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	6	254	260	905	132	462	1,499
Natural Gas Liquids	6	254	260	905	132	462	1,499
Ethane	-	-	-	33	3	108	144
Propane	2	130	132	551	52	171	774
Normal Butane	4	44	48	110	28	85	223
Isobutane	-	11	11	85	8	45	138
Natural Gasoline	-	69	69	126	41	53	220

Commodity	Stocks								
	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	262	297	1,538	6	1	2,104	176	360	4,399
Natural Gas Liquids	262	297	1,538	6	1	2,104	176	360	4,399
Ethane	40	16	-	-	-	56	4	-	204
Propane	101	44	34	3	-	182	78	67	1,233
Normal Butane	27	24	402	2	-	455	35	247	1,008
Isobutane	61	11	408	-	-	480	15	11	655
Natural Gasoline	33	202	694	1	1	931	44	35	1,299

- = No Data Reported.

Note: Refer to Appendix A for Refining District descriptions.

Sources: Energy Information Administration (EIA) Form EIA-816, "Monthly Natural Gas Liquids Report."

Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, August 2022
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	22,347	2,784	25,131	76,304	14,681	28,455	119,440
Hydrocarbon Gas Liquids	232	-	232	1,826	85	1,057	2,968
Natural Gas Liquids	232	-	232	1,826	85	1,057	2,968
Normal Butane	93	-	93	34	10	13	57
Isobutane	116	-	116	1,304	60	565	1,929
Natural Gasoline	23	-	23	488	15	479	982
Other Liquids	84,294	6,216	90,510	12,241	4,931	2,824	19,996
Hydrogen/Biofuels/Other Hydrocarbons	9,883	808	10,691	5,744	1,692	2,088	9,524
Hydrogen	76	-	76	689	281	204	1,174
Biofuels (including Fuel Ethanol)	9,807	808	10,615	5,053	1,411	1,884	8,348
Fuel Ethanol	9,610	719	10,329	4,876	1,176	1,735	7,787
Biodiesel	197	89	286	181	235	84	500
Renewable Diesel Fuel	-	-	-	-4	-	-	-4
Other Biofuels ¹	-	-	-	-	-	65	65
Other Hydrocarbons	-	-	-	2	-	-	2
Unfinished Oils (net)	283	-176	107	591	20	-111	500
Naphthas and Lighter	389	-113	276	408	112	-86	434
Kerosene and Light Gas Oils	-19	-	-19	-790	7	-47	-830
Heavy Gas Oils	-90	-63	-153	923	-99	66	890
Residuum	3	0	3	50	-	-44	6
Motor Gasoline Blend.Comp. (MGBC)(net)	74,128	5,584	79,712	5,906	3,219	847	9,972
Reformulated - RBOB	16,690	-	16,690	180	1,262	1,100	2,542
Conventional	57,438	5,584	63,022	5,726	1,957	-253	7,430
CBOB	46,689	5,582	52,271	6,133	2,102	-350	7,885
GTAB	1,748	-	1,748	-	-	-	-
Other	9,001	2	9,003	-407	-145	97	-455
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	106,873	9,000	115,873	90,371	19,697	32,336	142,404

See footnotes at end of table.

Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, August 2022
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	20,676	148,931	96,390	7,790	2,788	276,575	19,202	67,454	507,802
Hydrocarbon Gas Liquids	508	6,525	3,496	62	128	10,719	468	2,164	16,551
Natural Gas Liquids	508	6,525	3,496	62	128	10,719	468	2,164	16,551
Normal Butane	165	785	443	1	—	1,394	136	476	2,156
Isobutane	299	2,425	1,450	58	128	4,360	161	817	7,383
Natural Gasoline	44	3,315	1,603	3	—	4,965	171	871	7,012
Other Liquids	9,868	-46,001	-27,935	7,177	97	-56,794	2,096	13,559	69,367
Hydrogen/Biofuels/Other Hydrocarbons	2,229	3,180	2,138	1,083	214	8,844	1,305	7,001	37,365
Hydrogen	106	2,292	1,473	61	52	3,984	207	1,440	6,881
Biofuels (including Fuel Ethanol)	2,123	888	665	1,022	162	4,860	1,098	5,561	30,482
Fuel Ethanol	2,095	848	485	999	150	4,577	999	4,751	28,443
Biodiesel	28	40	54	23	10	155	59	429	1,429
Renewable Diesel Fuel	—	—	—	—	—	—	—	380	376
Other Biofuels ¹	—	—	126	—	2	128	40	1	234
Other Hydrocarbons	—	—	—	—	—	—	—	—	2
Unfinished Oils (net)	-201	-4,868	8,091	23	0	3,045	-5	1,450	5,097
Naphthas and Lighter	-276	-6,257	636	41	-58	-5,914	62	-147	-5,289
Kerosene and Light Gas Oils	44	-1,121	267	30	20	-760	47	-511	-2,073
Heavy Gas Oils	-8	-139	5,792	45	38	5,728	8	2,574	9,047
Residuum	39	2,649	1,396	-93	—	3,991	-122	-466	3,412
Motor Gasoline Blend.Comp. (MGBC)(net)	7,833	-44,313	-38,179	6,071	-117	-68,705	796	5,108	26,883
Reformulated - RBOB	6,074	-10,532	-6,560	9	-591	-11,600	—	3,159	10,791
Conventional	1,759	-33,781	-31,619	6,062	474	-57,105	796	1,949	16,092
CBOB	1,792	-31,681	-30,109	6,084	468	-53,446	723	809	8,242
GTAB	—	—	—	—	—	—	—	—	1,748
Other	-33	-2,100	-1,510	-22	6	-3,659	73	1,140	6,102
Aviation Gasoline Blend. Comp. (net)	7	—	15	—	—	22	—	—	22
Total Input	31,052	109,455	71,951	15,029	3,013	230,500	21,766	83,177	593,720

-- = Not Applicable.

- = No Data Reported.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal Report."

Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, August 2022
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	1,005	56	1,061	4,130	607	761	5,498
Natural Gas Liquids	656	56	712	3,084	480	531	4,095
Ethane	-	-	-	-	-	-	-
Propane	432	22	454	1,588	264	492	2,344
Normal Butane	229	53	282	1,652	273	77	2,002
Isobutane	-5	-19	-24	-156	-57	-38	-251
Natural Gasoline	-	-	-	-	-	-	-
Refinery Olefins	349	-	349	1,046	127	230	1,403
Ethylene	14	-	14	-	-	-	-
Propylene	293	-	293	907	127	231	1,265
Normal Butylene	-1	-	-1	139	-	-1	138
Isobutylene	43	-	43	-	-	-	-
Finished Motor Gasoline	94,180	7,171	101,351	50,573	11,483	17,259	79,315
Reformulated	36,771	49	36,820	7,670	1,477	1,222	10,369
Reformulated Blended with Fuel Ethanol	36,766	49	36,815	7,670	1,476	1,222	10,368
Reformulated Other	5	-	5	-	1	-	1
Conventional	57,409	7,122	64,531	42,903	10,006	16,037	68,946
Conventional Blended with Fuel Ethanol	57,738	7,119	64,857	40,347	9,804	14,795	64,946
Ed55 and Lower	57,657	7,119	64,776	40,314	9,748	14,616	64,678
Greater than Ed55	81	-	81	33	56	179	268
Conventional Other	-329	3	-326	2,556	202	1,242	4,000
Finished Aviation Gasoline	-	-	-	-	48	-	48
Kerosene-Type Jet Fuel	3,129	-	3,129	6,466	954	1,008	8,428
Kerosene	71	-	71	50	-	8	58
Distillate Fuel Oil	6,188	784	6,972	20,671	5,014	11,459	37,144
15 ppm sulfur and under	6,347	767	7,114	20,742	5,065	11,399	37,206
Greater than 15 ppm to 500 ppm sulfur	17	-	17	-	-	185	185
Greater than 500 ppm sulfur	-176	17	-159	-71	-51	-125	-247
Residual Fuel Oil	1,200	6	1,206	803	155	154	1,112
Less than 0.31 percent sulfur	-	5	5	4	-	-	4
0.31 to 1.00 percent sulfur	978	1	979	413	78	28	519
Greater than 1.00 percent sulfur	222	-	222	386	77	126	589
Petrochemical Feedstocks	-	-	-	867	-	-	867
Naphtha for Petro. Feed. Use	-	-	-	549	-	-	549
Other Oils for Petro. Feed. Use	-	-	-	318	-	-	318
Special Naphthas	-	11	11	-15	-	17	2
Lubricants	150	211	361	-	-	259	259
Waxes	-	-3	-3	-	-	46	46
Petroleum Coke	736	16	752	3,854	919	992	5,765
Marketable	299	-	299	2,762	756	729	4,247
Catalyst	437	16	453	1,092	163	263	1,518
Asphalt and Road Oil	486	617	1,103	3,651	988	387	5,026
Still Gas	832	47	879	2,698	604	1,118	4,420
Miscellaneous Products	52	33	85	307	109	63	479
Total	108,029	8,949	116,978	94,055	20,881	33,531	148,467
Processing Gain(-) or Loss(+) ¹	-1,156	51	-1,105	-3,684	-1,184	-1,195	-6,063

See footnotes at end of table.

Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, August 2022
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	951	8,747	5,617	76	39	15,430	581	2,243	24,813
Natural Gas Liquids	588	5,448	3,388	50	39	9,513	439	2,103	16,862
Ethane	8	154	35	-	-	197	-	-	197
Propane	313	2,554	2,126	21	28	5,042	228	1,049	9,117
Normal Butane	292	3,112	1,052	29	11	4,496	213	1,008	8,001
Isobutane	-25	-372	175	-	-	-222	-2	46	-453
Natural Gasoline	-	-	-	-	-	-	-	-	-
Refinery Olefins	363	3,299	2,229	26	-	5,917	142	140	7,951
Ethylene	-	13	-	-	-	13	-	-	27
Propylene	368	3,633	2,356	26	-	6,383	41	171	8,153
Normal Butylene	-5	-290	-127	-	-	-422	101	-31	-215
Isobutylene	-	-57	-	-	-	-57	-	-	-14
Finished Motor Gasoline	20,939	25,832	10,176	9,411	1,653	68,011	11,465	45,910	306,052
Reformulated	7,442	6,823	-	-	-	14,265	-	32,072	93,526
Reformulated Blended with Fuel Ethanol	7,441	6,823	-	-	-	14,264	-	32,072	93,519
Reformulated Other	1	-	-	-	-	1	-	-	7
Conventional	13,497	19,009	10,176	9,411	1,653	53,746	11,465	13,838	212,526
Conventional Blended with Fuel Ethanol	13,171	1,495	4,970	9,830	1,518	30,984	9,832	14,679	185,298
Ed55 and Lower	13,155	1,494	4,970	9,803	1,517	30,939	9,799	14,672	184,864
Greater than Ed55	16	1	-	27	1	45	33	7	434
Conventional Other	326	17,514	5,206	-419	135	22,762	1,633	-841	27,228
Finished Aviation Gasoline	82	124	120	-	-	326	8	58	440
Kerosene-Type Jet Fuel	1,531	14,217	10,329	70	0	26,147	1,132	13,347	52,183
Kerosene	7	316	-38	4	-	289	-	0	418
Distillate Fuel Oil	6,402	47,149	36,352	3,025	1,178	94,106	6,570	14,618	159,410
15 ppm sulfur and under	6,263	45,429	32,299	2,953	1,178	88,122	6,528	13,827	152,797
Greater than 15 ppm to 500 ppm sulfur	139	292	1,958	80	-	2,469	57	359	3,087
Greater than 500 ppm sulfur	-	1,428	2,095	-8	-	3,515	-15	432	3,526
Residual Fuel Oil	310	1,921	1,238	-12	18	3,475	325	2,382	8,500
Less than 0.31 percent sulfur	300	-	807	-	-	1,107	163	59	1,338
0.31 to 1.00 percent sulfur	1	1,043	414	-12	-	1,446	30	635	3,609
Greater than 1.00 percent sulfur	9	878	17	-	18	922	132	1,688	3,553
Petrochemical Feedstocks	52	2,959	2,737	-	-	5,748	-	-	6,615
Naphtha for Petro. Feed. Use	40	1,678	1,109	-	-	2,827	-	-	3,376
Other Oils for Petro. Feed. Use	12	1,281	1,628	-	-	2,921	-	-	3,239
Special Naphthas	50	679	-	226	-	955	-	17	985
Lubricants	5	1,077	1,475	758	-	3,315	-	112	4,047
Waxes	-	59	82	29	-	170	-	-	213
Petroleum Coke	478	8,276	5,485	127	22	14,388	674	3,868	25,447
Marketable	226	6,413	4,397	109	-	11,145	467	2,929	19,087
Catalyst	252	1,863	1,088	18	22	3,243	207	939	6,360
Asphalt and Road Oil	160	498	925	1,202	46	2,831	1,004	918	10,882
Still Gas	850	6,540	3,688	251	78	11,407	740	3,782	21,228
Miscellaneous Products	154	1,001	479	14	50	1,698	139	375	2,776
Total	31,971	119,395	78,665	15,181	3,084	248,296	22,638	87,630	624,009
Processing Gain(-) or Loss(+) ¹	-919	-9,940	-6,714	-152	-71	-17,796	-872	-4,453	-30,289

- = No Data Reported.

¹ Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal Report."

Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, August 2022
(Thousand Barrels, Except Where Noted)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	22,347	2,784	25,131	76,304	14,681	28,455	119,440
Hydrocarbon Gas Liquids	116	-	116	1,817	60	1,014	2,891
Natural Gas Liquids	116	-	116	1,817	60	1,014	2,891
Normal Butane	-	-	-	29	-	-	29
Isobutane	116	-	116	1,304	60	565	1,929
Natural Gasoline	-	-	-	484	-	449	933
Other Liquids	-9,179	-51	-9,230	-33,368	-4,739	-11,608	-49,715
Hydrogen/Biofuels/Other Hydrocarbons	155	126	281	924	494	437	1,855
Hydrogen	76	-	76	689	281	204	1,174
Biofuels (including Fuel Ethanol)	79	126	205	233	213	233	679
Fuel Ethanol	79	94	173	190	151	147	488
Biodiesel	-	32	32	43	62	21	126
Renewable Diesel Fuel	-	-	-	-	-	-	-
Other Biofuels ¹	-	-	-	-	-	65	65
Other Hydrocarbons	-	-	-	2	-	-	2
Unfinished Oils (net)	283	-176	107	591	20	-111	500
Naphthas and Lighter	389	-113	276	408	112	-86	434
Kerosene and Light Gas Oils	-19	-	-19	-790	7	-47	-830
Heavy Gas Oils	-90	-63	-153	923	-99	66	890
Residuum	3	0	3	50	-	-44	6
Motor Gasoline Blend.Comp. (MGBC)(net)	-9,617	-1	-9,618	-34,883	-5,253	-11,934	-52,070
Reformulated - RBOB	-6,956	-	-6,956	-6,694	-	-	-6,694
Conventional	-2,661	-1	-2,662	-28,189	-5,253	-11,934	-45,376
CBOB	-2,365	-3	-2,368	-27,775	-4,976	-12,031	-44,782
GTAB	-	-	-	-	-	-	-
Other	-296	2	-294	-414	-277	97	-594
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input to Refineries	13,284	2,733	16,017	44,753	10,002	17,861	72,616
Atmospheric Crude Oil Distillation							
Gross Input (daily average)	744	90	834	2,447	497	924	3,868
Operable Capacity (daily average)	720	98	818	2,721	548	928	4,197
Operable Utilization Rate (percent) ²	103.4	91.4	102.0	89.9	90.7	99.6	92.2
Downstream Processing							
Fresh Feed Input (daily average)							
Catalytic Reforming	132	14	145	476	47	174	697
Catalytic Cracking	235	13	248	763	130	218	1,111
Catalytic Hydrocracking	47	-	47	206	66	53	324
Delayed and Fluid Coking	42	-	42	324	73	94	492
Crude Oil Qualities							
Sulfur Content, Weighted Average (percent)	0.86	1.60	0.95	1.55	1.73	0.74	1.38
API Gravity, Weighted Average (degrees)	35.41	32.52	35.08	33.03	28.41	38.60	33.75
Operable Capacity (daily average)	720	98	818	2,721	548	928	4,197
Operating	720	98	818	2,721	510	928	4,159
Idle	-	-	-	-	38	-	38
Alaskan Crude Oil Receipts	-	-	-	-	-	-	-

See footnotes at end of table.

Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, August 2022
(Thousand Barrels, Except Where Noted) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	20,676	148,931	96,390	7,790	2,788	276,575	19,202	67,454	507,802
Hydrocarbon Gas Liquids	507	4,045	3,491	61	128	8,232	449	2,155	13,843
Natural Gas Liquids	507	4,045	3,491	61	128	8,232	449	2,155	13,843
Normal Butane	165	650	438	—	—	1,253	128	467	1,877
Isobutane	299	2,425	1,450	58	128	4,360	159	817	7,381
Natural Gasoline	43	970	1,603	3	—	2,619	162	871	4,585
Other Liquids	-8,490	-54,757	-30,997	-1,765	-1,312	-97,321	-4,412	-30,587	-191,265
Hydrogen/Biofuels/Other Hydrocarbons	326	2,316	1,833	98	63	4,636	576	1,868	9,216
Hydrogen	106	2,292	1,473	61	52	3,984	207	1,440	6,881
Biofuels (including Fuel Ethanol)	220	24	360	37	11	652	369	428	2,333
Fuel Ethanol	208	38	180	36	6	468	291	147	1,567
Biodiesel	12	-14	54	1	3	56	38	15	267
Renewable Diesel Fuel	—	—	—	—	—	—	—	265	265
Other Biofuels ¹	—	—	126	—	2	128	40	1	234
Other Hydrocarbons	—	—	—	—	—	—	—	—	2
Unfinished Oils (net)	-201	-4,868	8,091	23	0	3,045	-5	1,450	5,097
Naphthas and Lighter	-276	-6,257	636	41	-58	-5,914	62	-147	-5,289
Kerosene and Light Gas Oils	44	-1,121	267	30	20	-760	47	-511	-2,073
Heavy Gas Oils	-8	-139	5,792	45	38	5,728	8	2,574	9,047
Residuum	39	2,649	1,396	-93	—	3,991	-122	-466	3,412
Motor Gasoline Blend.Comp. (MGB)(net)	-8,622	-52,205	-40,936	-1,886	-1,375	-105,024	-4,983	-33,905	-205,600
Reformulated - RBOB	-727	-16,426	-6,560	—	-591	-24,304	—	-24,939	-62,893
Conventional	-7,895	-35,779	-34,376	-1,886	-784	-80,720	-4,983	-8,966	-142,707
CBOB	-7,862	-29,720	-31,786	-1,864	-753	-71,985	-5,055	-9,909	-134,099
GTAB	—	—	—	—	—	—	—	—	—
Other	-33	-6,059	-2,590	-22	-31	-8,735	72	943	-8,608
Aviation Gasoline Blend. Comp. (net)	7	—	15	—	—	22	—	—	22
Total Input to Refineries	12,693	98,219	68,884	6,086	1,604	187,486	15,239	39,022	330,380
Atmospheric Crude Oil Distillation									
Gross Input (daily average)	672	4,974	3,288	230	90	9,254	616	2,331	16,903
Operable Capacity (daily average)	746	5,221	3,288	260	110	9,625	663	2,659	17,962
Operable Utilization Rate (percent) ²	90.2	95.3	100.0	88.5	81.8	96.2	93.0	87.6	94.1
Downstream Processing									
Fresh Feed Input (daily average)									
Catalytic Reforming	146	821	586	38	19	1,610	104	368	2,924
Catalytic Cracking	182	1,203	870	19	24	2,299	173	640	4,470
Catalytic Hydrocracking	41	571	440	16	14	1,083	16	420	1,891
Delayed and Fluid Coking	28	758	518	28	—	1,332	51	401	2,317
Crude Oil Qualities									
Sulfur Content, Weighted Average (percent)	0.62	1.45	1.30	1.26	0.83	1.30	1.21	1.18	1.28
API Gravity, Weighted Average (degrees)	39.74	33.63	32.08	32.24	38.62	33.70	32.84	28.71	33.07
Operable Capacity (daily average)	746	5,221	3,288	260	110	9,625	663	2,659	17,962
Operating	746	5,221	3,288	260	110	9,625	654	2,644	17,899
Idle	—	—	—	—	—	—	10	16	63
Alaskan Crude Oil Receipts	—	—	—	—	—	—	—	12,464	12,464

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

² Represents gross input divided by operable calendar day capacity.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, August 2022
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	1,005	56	1,061	4,130	607	761	5,498
Natural Gas Liquids	656	56	712	3,084	480	531	4,095
Ethane	-	-	-	-	-	-	-
Propane	432	22	454	1,588	264	492	2,344
Normal Butane	229	53	282	1,652	273	77	2,002
Isobutane	-5	-19	-24	-156	-57	-38	-251
Natural Gasoline	-	-	-	-	-	-	-
Refinery Olefins	349	-	349	1,046	127	230	1,403
Ethylene	14	-	14	-	-	-	-
Propylene	293	-	293	907	127	231	1,265
Normal Butylene	-1	-	-1	139	-	-1	138
Isobutylene	43	-	43	-	-	-	-
Finished Motor Gasoline	786	954	1,740	5,046	1,960	2,842	9,848
Reformulated	786	-	786	-	-	-	-
Reformulated Blended with Fuel Ethanol	786	-	786	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-
Conventional	-	954	954	5,046	1,960	2,842	9,848
Conventional Blended with Fuel Ethanol	-	951	951	1,949	1,466	1,514	4,929
Ed55 and Lower	-	951	951	1,949	1,466	1,514	4,929
Greater than Ed55	-	-	-	-	-	-	-
Conventional Other	-	3	3	3,097	494	1,328	4,919
Finished Aviation Gasoline	-	-	-	-	48	-	48
Kerosene-Type Jet Fuel	3,129	-	3,129	6,486	956	1,010	8,452
Kerosene	71	-	71	51	-	8	59
Distillate Fuel Oil	5,995	734	6,729	20,560	4,841	11,403	36,804
15 ppm sulfur and under	6,153	717	6,870	20,631	4,892	11,342	36,865
Greater than 15 ppm to 500 ppm sulfur	-12	-	-12	-	-	83	83
Greater than 500 ppm sulfur	-146	17	-129	-71	-51	-22	-144
Residual Fuel Oil	1,203	6	1,209	803	155	154	1,112
Less than 0.31 percent sulfur	-	5	5	4	-	-	4
0.31 to 1.00 percent sulfur	978	1	979	413	78	28	519
Greater than 1.00 percent sulfur	225	-	225	386	77	126	589
Petrochemical Feedstocks	-	-	-	867	-	-	867
Naphtha for Petro. Feed. Use	-	-	-	549	-	-	549
Other Oils for Petro. Feed. Use	-	-	-	318	-	-	318
Special Naphthas	-	11	11	-15	-	17	2
Lubricants	150	211	361	-	-	259	259
Waxes	-	-3	-3	-	-	46	46
Petroleum Coke	736	16	752	3,854	919	992	5,765
Marketable	299	-	299	2,762	756	729	4,247
Catalyst	437	16	453	1,092	163	263	1,518
Asphalt and Road Oil	478	617	1,095	3,651	986	379	5,016
Still Gas	832	47	879	2,698	604	1,118	4,420
Miscellaneous Products	52	33	85	307	109	63	479
Total	14,437	2,682	17,119	48,438	11,185	19,052	78,675
Processing Gain(-) or Loss(+) ¹	-1,153	51	-1,102	-3,685	-1,183	-1,191	-6,059

See footnotes at end of table.

Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, August 2022
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						Total	PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico					
Hydrocarbon Gas Liquids	951	8,747	5,617	76	39	15,430	581	2,243	24,813	
Natural Gas Liquids	588	5,448	3,388	50	39	9,513	439	2,103	16,862	
Ethane	8	154	35	—	—	197	—	—	197	
Propane	313	2,554	2,126	21	28	5,042	228	1,049	9,117	
Normal Butane	292	3,112	1,052	29	11	4,496	213	1,008	8,001	
Isobutane	-25	-372	175	—	—	-222	-2	46	-453	
Natural Gasoline	—	—	—	—	—	—	—	—	—	
Refinery Olefins	363	3,299	2,229	26	—	5,917	142	140	7,951	
Ethylene	—	13	—	—	—	13	—	—	27	
Propylene	368	3,633	2,356	26	—	6,383	41	171	8,153	
Normal Butylene	-5	-290	-127	—	—	-422	101	-31	-215	
Isobutylene	—	-57	—	—	—	-57	—	—	-14	
Finished Motor Gasoline	2,596	14,652	7,108	487	251	25,094	4,958	2,281	43,921	
Reformulated	—	—	—	—	—	—	—	—	631	
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	631	
Reformulated Other	—	—	—	—	—	—	—	—	—	
Conventional	2,596	14,652	7,108	487	251	25,094	4,958	1,650	42,504	
Conventional Blended with Fuel Ethanol	2,089	436	1,920	374	62	4,881	2,924	718	14,403	
Ed55 and Lower	2,089	436	1,920	374	62	4,881	2,924	718	14,403	
Greater than Ed55	—	—	—	—	—	—	—	—	—	
Conventional Other	507	14,216	5,188	113	189	20,213	2,034	932	28,101	
Finished Aviation Gasoline	82	124	120	—	—	326	8	58	440	
Kerosene-Type Jet Fuel	1,531	14,186	10,324	70	—	26,111	1,028	13,336	52,056	
Kerosene	7	347	-38	4	—	320	—	0	450	
Distillate Fuel Oil	6,386	47,093	36,358	3,004	1,170	94,011	6,652	14,112	158,308	
15 ppm sulfur and under	6,247	45,373	32,305	2,932	1,170	88,027	6,610	13,323	151,695	
Greater than 15 ppm to 500 ppm sulfur	139	292	1,958	80	—	2,469	57	359	2,956	
Greater than 500 ppm sulfur	—	1,428	2,095	-8	—	3,515	-15	430	3,657	
Residual Fuel Oil	310	1,921	1,310	-12	18	3,547	325	2,382	8,575	
Less than 0.31 percent sulfur	300	—	807	—	—	1,107	163	59	1,338	
0.31 to 1.00 percent sulfur	1	1,043	414	-12	—	1,446	30	636	3,610	
Greater than 1.00 percent sulfur	9	878	89	—	18	994	132	1,687	3,627	
Petrochemical Feedstocks	52	2,959	2,737	—	—	5,748	—	—	6,615	
Naphtha for Petro. Feed. Use	40	1,678	1,109	—	—	2,827	—	—	3,376	
Other Oils for Petro. Feed. Use	12	1,281	1,628	—	—	2,921	—	—	3,239	
Special Naphthas	50	679	—	226	—	955	—	17	985	
Lubricants	5	1,077	1,475	758	—	3,315	—	112	4,047	
Waxes	—	59	82	29	—	170	—	—	213	
Petroleum Coke	478	8,276	5,485	127	22	14,388	674	3,868	25,447	
Marketable	226	6,413	4,397	109	—	11,145	467	2,929	19,087	
Catalyst	252	1,863	1,088	18	22	3,243	207	939	6,360	
Asphalt and Road Oil	160	498	853	1,202	46	2,759	1,004	918	10,792	
Still Gas	850	6,540	3,688	251	78	11,407	740	3,782	21,228	
Miscellaneous Products	154	1,001	479	14	50	1,698	139	375	2,776	
Total	13,612	108,159	75,598	6,236	1,674	205,279	16,109	43,484	360,666	
Processing Gain(-) or Loss(+) ¹	-919	-9,940	-6,714	-150	-70	-17,793	-870	-4,462	-30,286	

— = No Data Reported.

¹ Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

Table 32. Blender Net Inputs of Petroleum Products by PAD District, August 2022
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	116	-	116	9	25	43	77
Natural Gas Liquids	116	-	116	9	25	43	77
Normal Butane	93	-	93	5	10	13	28
Isobutane	-	-	-	-	-	-	-
Natural Gasoline	23	-	23	4	15	30	49
Other Liquids	93,473	6,267	99,740	45,609	9,670	14,432	69,711
Oxygenates/Renewables	9,728	682	10,410	4,820	1,198	1,651	7,669
Biofuels (including Fuel Ethanol)	9,728	682	10,410	4,820	1,198	1,651	7,669
Fuel Ethanol	9,531	625	10,156	4,686	1,025	1,588	7,299
Biodiesel	197	57	254	138	173	63	374
Renewable Diesel Fuel	-	-	-	-4	-	-	-4
Other Biofuels ¹	-	-	-	-	-	-	-
Unfinished Oils (net)	-	-	-	-	-	-	-
Naphthas and Lighter	-	-	-	-	-	-	-
Kerosene and Light Gas Oils	-	-	-	-	-	-	-
Heavy Gas Oils	-	-	-	-	-	-	-
Residuum	-	-	-	-	-	-	-
Motor Gasoline Blend.Comp. (MGBC)(net)	83,745	5,585	89,330	40,789	8,472	12,781	62,042
Reformulated - RBOB	23,646	-	23,646	6,874	1,262	1,100	9,236
Conventional	60,099	5,585	65,684	33,915	7,210	11,681	52,806
CBOB	49,054	5,585	54,639	33,908	7,078	11,681	52,667
GTAB	1,748	-	1,748	-	-	-	-
Other	9,297	-	9,297	7	132	-	139
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	93,589	6,267	99,856	45,618	9,695	14,475	69,788

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	1	2,480	5	1	-	2,487	19	9	2,708
Natural Gas Liquids	1	2,480	5	1	-	2,487	19	9	2,708
Normal Butane	-	135	5	1	-	141	8	9	279
Isobutane	-	-	-	-	-	-	2	-	2
Natural Gasoline	1	2,345	-	-	-	2,346	9	-	2,427
Other Liquids	18,358	8,756	3,062	8,942	1,409	40,527	6,508	44,146	260,632
Oxygenates/Renewables	1,903	864	305	985	151	4,208	729	5,133	28,149
Biofuels (including Fuel Ethanol)	1,903	864	305	985	151	4,208	729	5,133	28,149
Fuel Ethanol	1,887	810	305	963	144	4,109	708	4,604	26,876
Biodiesel	16	54	-	22	7	99	21	414	1,162
Renewable Diesel Fuel	-	-	-	-	-	-	-	115	111
Other Biofuels ¹	-	-	-	-	-	-	-	-	-
Unfinished Oils (net)	-	-	-	-	-	-	-	-	-
Naphthas and Lighter	-	-	-	-	-	-	-	-	-
Kerosene and Light Gas Oils	-	-	-	-	-	-	-	-	-
Heavy Gas Oils	-	-	-	-	-	-	-	-	-
Residuum	-	-	-	-	-	-	-	-	-
Motor Gasoline Blend.Comp. (MGBC)(net)	16,455	7,892	2,757	7,957	1,258	36,319	5,779	39,013	232,483
Reformulated - RBOB	6,801	5,894	-	9	-	12,704	-	28,098	73,684
Conventional	9,654	1,998	2,757	7,948	1,258	23,615	5,779	10,915	158,799
CBOB	9,654	-1,961	1,677	7,948	1,221	18,539	5,778	10,718	142,341
GTAB	-	-	-	-	-	-	-	-	1,748
Other	-	3,959	1,080	-	37	5,076	1	197	14,710
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-	-	-
Total Input	18,359	11,236	3,067	8,943	1,409	43,014	6,527	44,155	263,340

-- = Not Applicable.

- = No Data Reported.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Refer to Appendix A for Refining District descriptions.

Sources: Energy Information Administration (EIA) Form EIA-815, "Monthly Bulk Terminal Report."

Table 33. Blender Net Production of Petroleum Products by PAD District, August 2022
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Finished Motor Gasoline	93,394	6,217	99,611	45,527	9,523	14,417	69,467
Reformulated	35,985	49	36,034	7,670	1,477	1,222	10,369
Reformulated Blended with Fuel Ethanol	35,980	49	36,029	7,670	1,476	1,222	10,368
Reformulated Other	5	-	5	-	1	-	1
Conventional	57,409	6,168	63,577	37,857	8,046	13,195	59,098
Conventional Blended with Fuel Ethanol	57,738	6,168	63,906	38,398	8,338	13,281	60,017
Ed55 and Lower	57,657	6,168	63,825	38,365	8,282	13,102	59,749
Greater than Ed55	81	-	81	33	56	179	268
Conventional Other	-329	-	-329	-541	-292	-86	-919
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	-	0	-20	-2	-2	-24
Kerosene	-	-	-	-1	-	-	-1
Distillate Fuel Oil	193	50	243	111	173	56	340
15 ppm sulfur and under	194	50	244	111	173	57	341
Greater than 15 ppm to 500 ppm sulfur	29	-	29	-	-	102	102
Greater than 500 ppm sulfur	-30	-	-30	-	-	-103	-103
Residual Fuel Oil	-3	-	-3	-	-	-	-
Less than 0.31 percent sulfur	-	-	-	-	-	-	-
0.31 to 1.00 percent sulfur	-	-	-	-	-	-	-
Greater than 1.00 percent sulfur	-3	-	-3	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-
Asphalt and Road Oil	8	-	8	-	2	8	10
Miscellaneous Products	-	-	-	-	-	-	-
Total Production	93,592	6,267	99,859	45,617	9,696	14,479	69,792
Processing Gain(-) or Loss(+) ¹	-3	0	-3	1	-1	-4	-4

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Finished Motor Gasoline	18,343	11,180	3,068	8,924	1,402	42,917	6,507	43,629	262,131
Reformulated	7,442	6,823	-	-	-	14,265	-	31,441	92,109
Reformulated Blended with Fuel Ethanol	7,441	6,823	-	-	-	14,264	-	31,441	92,102
Reformulated Other	1	-	-	-	-	1	-	-	7
Conventional	10,901	4,357	3,068	8,924	1,402	28,652	6,507	12,188	170,022
Conventional Blended with Fuel Ethanol	11,082	1,059	3,050	9,456	1,456	26,103	6,908	13,961	170,895
Ed55 and Lower	11,066	1,058	3,050	9,429	1,455	26,058	6,875	13,954	170,461
Greater than Ed55	16	1	-	27	1	45	33	7	434
Conventional Other	-181	3,298	18	-532	-54	2,549	-401	-1,773	-873
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	31	5	-	0	36	104	11	127
Kerosene	-	-31	-	-	-	-31	-	-	-32
Distillate Fuel Oil	16	56	-6	21	8	95	-82	506	1,102
15 ppm sulfur and under	16	56	-6	21	8	95	-82	504	1,102
Greater than 15 ppm to 500 ppm sulfur	-	-	-	-	-	-	-	-	131
Greater than 500 ppm sulfur	-	-	-	-	-	-	-	2	-131
Residual Fuel Oil	-	-	-72	-	-	-72	-	0	-75
Less than 0.31 percent sulfur	-	-	-	-	-	-	-	-	-
0.31 to 1.00 percent sulfur	-	-	-	-	-	-	-	-1	-1
Greater than 1.00 percent sulfur	-	-	-72	-	-	-72	-	1	-74
Special Naphthas	-	-	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-	-	-
Asphalt and Road Oil	-	-	72	-	-	72	-	-	90
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total Production	18,359	11,236	3,067	8,945	1,410	43,017	6,529	44,146	263,343
Processing Gain(-) or Loss(+) ¹	0	0	0	-2	-1	-3	-2	9	-3

⁻ = No Data Reported.

¹ Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Sources: Energy Information Administration (EIA) Form EIA-815, "Monthly Bulk Terminal Report."

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, August 2022
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	4,791	666	5,457	9,527	1,875	1,993	13,395
Petroleum Products	9,428	2,110	11,538	28,861	7,864	10,520	47,245
Hydrocarbon Gas Liquids	544	77	621	2,779	494	1,150	4,423
Natural Gas Liquids	346	77	423	2,318	484	1,141	3,943
Ethane	—	—	—	—	—	—	—
Propane	86	1	87	495	23	439	957
Normal Butane	228	63	291	1,364	431	214	2,009
Isobutane	32	13	45	305	30	167	502
Natural Gasoline	—	—	—	154	—	321	475
Refinery Olefins	198	0	198	461	10	9	480
Ethylene	—	—	—	—	—	—	—
Propylene	110	0	110	361	10	9	380
Normal Butylene	3	0	3	100	0	0	100
Isobutylene	85	0	85	0	0	0	0
Biofuels/Other Hydrocarbons	100	119	219	42	43	27	112
Biofuels (including Fuel Ethanol)	100	119	219	25	43	27	95
Fuel Ethanol	100	112	212	21	35	27	83
Biodiesel	—	7	7	4	8	—	12
Renewable Diesel Fuel	—	—	—	—	—	—	—
Other Biofuels ¹	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	17	—	—	17
Unfinished Oils	3,167	452	3,619	8,716	899	3,801	13,416
Naphthas and Lighter	727	295	1,022	2,060	291	1,174	3,525
Kerosene and Light Gas Oils	335	—	335	2,037	350	420	2,807
Heavy Gas Oils	1,401	154	1,555	3,268	258	1,204	4,730
Residuum	704	3	707	1,351	—	1,003	2,354
Motor Gasoline Blending Components (MGBC)	2,705	296	3,001	7,278	1,977	2,475	11,730
Reformulated - RBOB	830	—	830	710	—	—	710
Conventional	1,875	296	2,171	6,568	1,977	2,475	11,020
CBOB	295	203	498	2,424	1,036	1,745	5,205
GTAB	—	—	—	—	—	—	—
Other	1,580	93	1,673	4,144	941	730	5,815
Aviation Gasoline Blending Components	—	—	—	—	—	—	—
Finished Motor Gasoline	—	29	29	693	123	236	1,052
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	—	29	29	693	123	236	1,052
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	—	29	29	693	123	236	1,052
Finished Aviation Gasoline	—	—	—	—	56	—	56
Kerosene-Type Jet Fuel	523	—	523	1,409	251	292	1,952
Kerosene	46	4	50	106	—	4	110
Distillate Fuel Oil	1,367	213	1,580	3,263	989	1,600	5,852
15 ppm sulfur and under	1,187	147	1,334	3,108	956	1,431	5,495
Greater than 15 ppm to 500 ppm sulfur	24	39	63	—	—	131	131
Greater than 500 ppm sulfur	156	27	183	155	33	38	226
Residual Fuel Oil	207	21	228	614	165	89	868
Less than 0.31 percent sulfur	—	18	18	57	—	—	57
0.31 to 1.00 percent sulfur	84	3	87	164	44	28	236
Greater than 1.00 percent sulfur	123	—	123	393	121	61	575
Petrochemical Feedstocks	—	—	—	518	—	—	518
Naphtha for Petro. Feed. Use	—	—	—	416	—	—	416
Other Oils for Petro. Feed. Use	—	—	—	102	—	—	102
Special Naphthas	—	25	25	77	—	11	88
Lubricants	601	213	814	—	—	238	238
Waxes	—	177	177	—	—	67	67
Petroleum Coke	—	—	—	506	1,367	269	2,142
Marketable	—	—	—	506	1,367	269	2,142
Catalyst	—	—	—	—	—	—	—
Asphalt and Road Oil	160	422	582	2,785	1,486	251	4,522
Miscellaneous Products	8	62	70	75	14	10	99
Total Stocks, All Oils	14,219	2,776	16,995	38,388	9,739	12,513	60,640

See footnotes at end of table.

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, August 2022
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	1,955	26,514	13,916	1,274	198	43,857	2,262	20,291	85,262
Petroleum Products	11,668	57,348	42,960	3,647	1,089	116,712	9,534	46,700	231,729
Hydrocarbon Gas Liquids	3,597	2,285	1,148	15	111	7,156	487	1,471	14,158
Natural Gas Liquids	3,106	2,062	884	14	111	6,177	385	1,429	12,357
Ethane	22	9	—	—	—	31	—	—	31
Propane	691	457	57	2	2	1,209	46	89	2,388
Normal Butane	2,054	1,359	343	9	99	3,864	238	1,017	7,419
Isobutane	339	213	299	3	10	864	87	322	1,820
Natural Gasoline	—	24	185	—	—	209	14	1	699
Refinery Olefins	491	223	264	1	0	979	102	42	1,801
Ethylene	0	0	—	—	—	0	—	—	0
Propylene	479	52	55	1	0	587	5	9	1,091
Normal Butylene	12	170	190	0	0	372	97	33	605
Isobutylene	0	1	19	0	0	20	0	0	105
Biofuels/Other Hydrocarbons	33	684	139	32	5	893	132	818	2,174
Biofuels (including Fuel Ethanol)	33	684	139	32	5	893	132	818	2,157
Fuel Ethanol	24	648	89	25	3	789	125	196	1,405
Biodiesel	9	36	50	7	2	104	7	9	139
Renewable Diesel Fuel	—	—	—	—	—	—	—	613	613
Other Biofuels ¹	—	—	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—	—	17
Unfinished Oils	2,980	21,535	15,061	861	480	40,917	2,689	17,987	78,628
Naphthas and Lighter	1,303	5,589	1,785	204	183	9,064	511	2,834	16,956
Kerosene and Light Gas Oils	440	3,790	2,000	162	108	6,500	540	3,116	13,298
Heavy Gas Oils	737	9,266	8,509	427	189	19,128	1,158	8,409	34,980
Residuum	500	2,890	2,767	68	—	6,225	480	3,628	13,394
Motor Gasoline Blending Components (MGBC)	2,577	11,916	10,764	313	250	25,820	2,681	12,232	55,464
Reformulated - RBOB	150	980	330	—	5	1,465	—	4,613	7,618
Conventional	2,427	10,936	10,434	313	245	24,355	2,681	7,619	47,846
CBOB	1,246	3,512	5,423	235	33	10,449	1,449	2,214	19,815
GTAB	—	—	—	—	—	—	—	—	—
Other	1,181	7,424	5,011	78	212	13,906	1,232	5,405	28,031
Aviation Gasoline Blending Components	25	—	8	—	—	33	—	—	33
Finished Motor Gasoline	162	1,663	1,057	23	—	2,905	639	585	5,210
Reformulated	—	—	—	—	—	—	—	18	18
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	18	18
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	162	1,663	1,057	23	—	2,905	639	567	5,192
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	54	—	54
Ed55 and Lower	—	—	—	—	—	—	54	—	54
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	162	1,663	1,057	23	—	2,905	585	567	5,138
Finished Aviation Gasoline	33	168	122	—	—	323	9	121	509
Kerosene-Type Jet Fuel	335	2,417	1,656	60	—	4,468	263	3,410	10,616
Kerosene	25	85	50	2	—	162	2	1	325
Distillate Fuel Oil	959	7,423	6,378	445	64	15,269	1,472	5,169	29,342
15 ppm sulfur and under	831	6,009	5,155	276	64	12,335	1,343	4,633	25,140
Greater than 15 ppm to 500 ppm sulfur	128	55	455	44	—	682	95	252	1,223
Greater than 500 ppm sulfur	—	1,359	768	125	—	2,252	34	284	2,979
Residual Fuel Oil	137	2,534	1,848	14	60	4,593	211	2,295	8,195
Less than 0.31 percent sulfur	17	—	39	—	—	56	29	21	181
0.31 to 1.00 percent sulfur	63	696	295	14	—	1,068	20	351	1,762
Greater than 1.00 percent sulfur	57	1,838	1,514	—	60	3,469	162	1,923	6,252
Petrochemical Feedstocks	58	1,414	556	4	—	2,032	—	2	2,552
Naphtha for Petro. Feed. Use	23	976	519	4	—	1,522	—	2	1,940
Other Oils for Petro. Feed. Use	35	438	37	—	—	510	—	—	612
Special Naphthas	88	510	—	179	—	777	—	23	913
Lubricants	57	1,883	2,080	760	—	4,780	—	344	6,176
Waxes	—	78	105	87	—	270	—	—	514
Petroleum Coke	42	2,288	1,156	—	—	3,486	148	1,554	7,330
Marketable	42	2,288	1,156	—	—	3,486	148	1,554	7,330
Catalyst	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	393	267	720	851	98	2,329	778	611	8,822
Miscellaneous Products	167	198	112	1	21	499	23	77	768
Total Stocks, All Oils	13,623	83,862	56,876	4,921	1,287	160,569	11,796	66,991	316,991

-- = Not Applicable.

- = No Data Reported.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal Report."

Table 35. Percent Yield of Petroleum Products by PAD and Refining Districts, August 2022

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	4.4	2.2	4.2	5.3	4.1	2.7	4.5
Finished Motor Gasoline ¹	45.0	33.0	43.7	48.9	46.7	47.7	48.3
Finished Aviation Gasoline ²	-	-	-	-	0.3	-	0.0
Kerosene-Type Jet Fuel	13.8	-	12.4	8.4	6.4	3.5	7.0
Kerosene	0.3	-	0.3	0.1	-	0.0	0.1
Distillate Fuel Oil ³	26.4	26.9	26.5	26.4	31.9	39.6	30.2
Residual Fuel Oil	5.3	0.2	4.8	1.0	1.0	0.5	0.9
Naphtha for Petro. Feed. Use	-	-	-	0.7	-	-	0.5
Other Oils for Petro. Feed. Use	-	-	-	0.4	-	-	0.3
Special Naphthas	-	0.4	0.0	0.0	-	0.1	0.0
Lubricants	0.7	8.1	1.4	-	-	0.9	0.2
Waxes	-	-0.1	0.0	-	-	0.2	0.0
Petroleum Coke	3.2	0.6	3.0	5.0	6.1	3.5	4.8
Asphalt and Road Oil	2.1	23.7	4.3	4.7	6.6	1.3	4.1
Still Gas	3.7	1.8	3.5	3.5	4.0	3.9	3.7
Miscellaneous Products	0.2	1.3	0.3	0.4	0.7	0.2	0.4
Processing Gain(-) or Loss(+) ⁴	-5.1	2.0	-4.4	-4.8	-7.9	-4.2	-5.0

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	4.6	6.0	5.3	1.0	1.4	5.4	3.0	3.2	4.8
Finished Motor Gasoline ¹	51.0	42.9	41.9	28.9	52.5	42.8	47.4	48.2	45.0
Finished Aviation Gasoline ²	0.4	0.1	0.1	-	-	0.1	0.0	0.1	0.1
Kerosene-Type Jet Fuel	7.4	9.7	9.7	0.9	-	9.2	5.3	19.0	10.0
Kerosene	0.0	0.2	0.0	0.1	-	0.1	-	0.0	0.1
Distillate Fuel Oil ³	31.0	32.2	34.2	38.1	41.0	33.1	33.9	19.7	30.3
Residual Fuel Oil	1.5	1.3	1.2	-0.2	0.6	1.3	1.7	3.4	1.7
Naphtha for Petro. Feed. Use	0.2	1.2	1.1	-	-	1.0	-	-	0.7
Other Oils for Petro. Feed. Use	0.1	0.9	1.5	-	-	1.0	-	-	0.6
Special Naphthas	0.2	0.5	-	2.9	-	0.3	-	0.0	0.2
Lubricants	0.0	0.7	1.4	9.6	-	1.2	-	0.2	0.8
Waxes	-	0.0	0.1	0.4	-	0.1	-	-	0.0
Petroleum Coke	2.3	5.7	5.2	1.6	0.8	5.1	3.5	5.5	4.9
Asphalt and Road Oil	0.8	0.3	0.8	15.3	1.6	1.0	5.2	1.3	2.1
Still Gas	4.1	4.5	3.5	3.2	2.8	4.0	3.8	5.4	4.1
Miscellaneous Products	0.8	0.7	0.5	0.2	1.8	0.6	0.7	0.5	0.5
Processing Gain(-) or Loss(+) ⁴	-4.5	-6.8	-6.3	-1.9	-2.5	-6.3	-4.5	-6.3	-5.8

- = No Data Reported.

¹ Based on net production of finished motor gasoline minus input of natural gas liquids, fuel ethanol, and net input of motor gasoline blending components.

² Based on finished aviation gasoline net production minus net input of aviation gasoline blending components.

³ Based on distillate fuel oil net production minus input of biodiesel, renewable diesel fuel, and other biofuels.

⁴ Represents the arithmetic difference between input and production.

Note: Percent yield is calculated as net production (or adjusted net production) divided by input of crude oil, hydrogen, "other" hydrocarbons, and net input of unfinished oils.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Calculated from data on Tables 30 and 31.

Table 36. Imports of Residual Fuel Oil by Sulfur Content and by PAD District and State of Entry, August 2022
(Thousand Barrels)

PAD District and State of Entry	Residual Fuel Oil			
	Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
PAD District 1	1,025	724	849	2,598
Connecticut	-	-	-	-
Delaware	-	-	-	-
Florida	-	-	-	-
Georgia	-	-	-	-
Maine	-	-	-	-
Maryland	-	-	-	-
Massachusetts	-	-	-	-
New Hampshire	-	-	-	-
New Jersey	305	724	849	1,878
New York	-	-	-	-
North Carolina	-	-	-	-
Pennsylvania	720	-	-	720
Rhode Island	-	-	-	-
South Carolina	-	-	-	-
Vermont	-	-	-	-
Virginia	-	-	-	-
West Virginia	-	-	-	-
PAD District 2	-	5	142	147
Illinois	-	-	-	-
Indiana	-	-	-	-
Michigan	-	-	88	88
Minnesota	-	1	16	17
North Dakota	-	4	38	42
Ohio	-	-	-	-
Wisconsin	-	-	-	-
PAD District 3	-	-	3,062	3,062
Alabama	-	-	-	-
Louisiana	-	-	546	546
Mississippi	-	-	924	924
New Mexico	-	-	-	-
Texas	-	-	1,592	1,592
PAD District 4	-	-	-	-
Idaho	-	-	-	-
Montana	-	-	-	-
PAD District 5	-	43	75	118
Alaska	-	-	-	-
California	-	-	37	37
Hawaii	-	-	-	-
Oregon	-	-	-	-
Washington	-	43	38	81
U.S. Total	1,025	772	4,128	5,925

- = No Data Reported.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 37. Imports of Crude Oil and Petroleum Products by PAD District, August 2022
(Thousand Barrels, Except Where Noted)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	20,479	84,270	47,137	8,585	35,761	196,232	6,330
Hydrocarbon Gas Liquids	947	2,352	1	301	1,462	5,063	163
Natural Gas Liquids	632	2,217	1	301	1,462	4,613	149
Ethane	—	—	—	—	—	—	—
Propane	570	1,036	—	283	819	2,708	87
Normal Butane	55	894	—	—	578	1,527	49
Isobutane	7	283	—	18	65	373	12
Natural Gasoline	—	4	1	—	—	5	0
Refinery Olefins	315	135	—	—	—	450	15
Ethylene	—	—	—	—	—	—	—
Propylene	315	116	—	—	—	431	14
Normal Butylene	—	19	—	—	—	19	1
Isobutylene	—	—	—	—	—	—	—
Other Liquids	17,945	451	13,504	18	2,875	34,793	1,122
Hydrogen/Biofuels/Other Hydrocarbons	122	131	75	6	919	1,253	40
Hydrogen	—	—	—	—	—	—	—
Biofuels (including Fuel Ethanol)	122	131	71	6	919	1,249	40
Fuel Ethanol	—	—	—	—	445	445	14
Biodiesel	122	131	71	6	41	371	12
Renewable Diesel Fuel	—	—	—	—	421	421	14
Other Biofuels ³	—	—	—	—	12	12	0
Other Hydrocarbons	—	—	4	—	—	4	0
Unfinished Oils ¹	582	—	11,474	—	1,910	13,966	451
Naphthas and Lighter	582	—	—	—	—	582	19
Kerosene and Lighter Gas Oils	—	—	18	—	—	18	1
Heavy Gas Oils	—	—	6,477	—	1,910	8,387	271
Residuum	—	—	4,979	—	—	4,979	161
Motor Gasoline Blend.Comp. (MGBC)	17,241	320	1,955	12	46	19,574	631
Reformulated - RBOB	4,919	—	417	—	—	5,336	172
Conventional	12,322	320	1,538	12	46	14,238	459
CBOB	1,555	79	—	—	—	1,634	53
GTAB	2,710	—	—	—	—	2,710	87
Other	8,057	241	1,538	12	46	9,894	319
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	11,023	1,465	6,069	178	4,164	22,899	739
Finished Motor Gasoline	2,500	—	—	—	413	2,913	94
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	2,500	—	—	—	413	2,913	94
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	2,500	—	—	—	413	2,913	94
Finished Aviation Gasoline	—	2	—	—	1	3	0
Kerosene-Type Jet Fuel	524	—	—	20	2,102	2,646	85
Bonded Aircraft Fuel	180	—	—	—	298	478	15
Other	344	—	—	20	1,804	2,168	70
Kerosene	—	—	—	—	—	—	—
Distillate Fuel Oil	3,680	385	—	104	1,288	5,457	176
15 ppm sulfur and under	3,679	375	—	104	974	5,132	166
Bonded	—	—	—	—	—	—	—
Other	3,679	375	—	104	974	5,132	166
Greater than 15 ppm to 500 ppm sulfur	1	4	—	—	314	319	10
Bonded	—	—	—	—	—	—	—
Other	1	4	—	—	314	319	10
Greater than 500 ppm to 2000 ppm sulfur	—	6	—	—	—	6	0
Bonded	—	—	—	—	—	—	—
Other	—	6	—	—	—	6	0
Greater than 2000 ppm	—	—	—	—	—	—	—
Bonded	—	—	—	—	—	—	—
Other	—	—	—	—	—	—	—
Residual Fuel Oil	2,598	147	3,062	—	118	5,925	191
Less than 0.31 percent sulfur	1,025	—	—	—	—	1,025	33
0.31 to 1.00 percent sulfur	724	5	—	—	43	772	25
Greater than 1.00 percent sulfur	849	142	3,062	—	75	4,128	133
Petrochemical Feedstocks	78	120	211	—	70	479	15
Naphtha for Petro. Feed. Use	75	67	178	—	70	390	13
Other Oils for Petro. Feed. Use	3	53	33	—	—	89	3
Special Naphthas	1	8	1,064	—	—	1,073	35
Lubricants	136	215	1,354	—	5	1,710	55
Waxes	104	14	21	—	25	164	5
Petroleum Coke (Marketable)	1	24	357	—	—	382	12
Asphalt and Road Oil	1,401	550	—	53	142	2,146	69
Miscellaneous Products	—	—	—	1	—	1	0
Total	50,394	88,538	66,711	9,082	44,262	258,987	8,354

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 38. Year-to-Date Imports of Crude Oil and Petroleum Products by PAD District, January-August 2022
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	146,045	630,010	408,266	68,607	284,119	1,537,047	6,325
Hydrocarbon Gas Liquids	10,820	17,198	43	2,887	10,823	41,771	172
Natural Gas Liquids	8,313	15,790	18	2,887	10,823	37,831	156
Ethane	-	-	-	-	-	-	-
Propane	7,820	10,273	16	2,726	6,338	27,173	112
Normal Butane	342	3,782	-	139	4,420	8,683	36
Isobutane	151	1,696	-	22	65	1,934	8
Natural Gasoline	-	39	2	-	-	41	0
Refinery Olefins	2,507	1,408	25	-	-	3,940	16
Ethylene	-	-	-	-	-	-	-
Propylene	2,507	920	-	-	-	3,427	14
Normal Butylene	-	488	25	-	-	513	2
Isobutylene	-	-	-	-	-	-	-
Other Liquids	123,949	4,077	115,812	865	30,466	275,169	1,132
Hydrogen/Biofuels/Other Hydrocarbons	1,393	605	568	68	5,719	8,353	34
Hydrogen	-	-	-	-	-	-	-
Biofuels (including Fuel Ethanol)	1,393	605	499	68	5,719	8,284	34
Fuel Ethanol	-	-	-	7	945	952	4
Biodiesel	1,393	605	449	61	625	3,133	13
Renewable Diesel Fuel	-	-	-	-	4,137	4,137	17
Other Biofuels ³	-	-	50	-	12	62	0
Other Hydrocarbons	-	-	69	-	-	69	0
Unfinished Oils ¹	9,387	-	102,239	345	15,968	127,939	526
Naphthas and Lighter	2,334	-	90	-	199	2,623	11
Kerosene and Lighter Gas Oils	-	-	140	46	-	186	1
Heavy Gas Oils	7,053	-	51,729	299	15,567	74,648	307
Residuum	-	-	50,280	-	202	50,482	208
Motor Gasoline Blend.Comp. (MGBC)	113,169	3,472	13,005	452	8,779	138,877	572
Reformulated - RBOB	37,403	-	417	-	1,289	39,109	161
Conventional	75,766	3,472	12,588	452	7,490	99,768	411
CBOB	12,672	894	-	-	631	14,197	58
GTAB	20,559	-	61	-	-	20,620	85
Other	42,535	2,578	12,527	452	6,859	64,951	267
Aviation Gasoline Blend. Comp.	-	-	-	-	-	-	-
Finished Petroleum Products	88,106	10,803	52,197	2,434	37,886	191,426	788
Finished Motor Gasoline	18,285	-	179	20	5,957	24,441	101
Reformulated	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-
Conventional	18,285	-	179	20	5,957	24,441	101
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-
Conventional Other	18,285	-	179	20	5,957	24,441	101
Finished Aviation Gasoline	92	33	80	3	17	225	1
Kerosene-Type Jet Fuel	6,615	34	-	304	22,232	29,185	120
Bonded Aircraft Fuel	982	-	-	-	3,774	4,756	20
Other	5,633	34	-	304	18,458	24,429	101
Kerosene	-	-	-	-	18	18	0
Distillate Fuel Oil	37,893	2,379	271	1,472	6,145	48,160	198
15 ppm sulfur and under	37,779	2,209	136	1,469	4,694	46,287	190
Bonded	1	-	-	-	-	1	0
Other	37,778	2,209	136	1,469	4,694	46,286	190
Greater than 15 ppm to 500 ppm sulfur	52	41	25	-	1,260	1,378	6
Bonded	-	-	-	-	-	-	-
Other	52	41	25	-	1,260	1,378	6
Greater than 500 ppm to 2000 ppm sulfur	62	129	110	3	1	305	1
Bonded	-	-	-	-	-	-	-
Other	62	129	110	3	1	305	1
Greater than 2000 ppm	-	-	-	-	190	190	1
Bonded	-	-	-	-	-	-	-
Other	-	-	-	-	190	190	1
Residual Fuel Oil	14,785	1,021	35,593	-	2,170	53,569	220
Less than 0.31 percent sulfur	1,025	-	880	-	-	1,905	8
0.31 to 1.00 percent sulfur	3,950	84	2,021	-	1,114	7,169	30
Greater than 1.00 percent sulfur	9,810	937	32,692	-	1,056	44,495	183
Petrochemical Feedstocks	490	1,207	1,811	-	280	3,788	16
Naphtha for Petro. Feed. Use	480	691	1,531	-	280	2,982	12
Other Oils for Petro. Feed. Use	10	516	280	-	-	806	3
Special Naphthas	113	58	2,967	-	-	3,138	13
Lubricants	1,015	1,723	8,607	-	257	11,602	48
Waxes	776	116	276	-	269	1,437	6
Petroleum Coke (Marketable)	11	170	2,354	-	-	2,535	10
Asphalt and Road Oil	8,031	4,062	59	627	541	13,320	55
Miscellaneous Products	-	-	-	8	-	8	0
Total	368,920	662,088	576,318	74,793	363,294	2,045,413	8,417

-- = Not Applicable.
 - = No Data Reported.
 1 Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.
 2 Includes crude oil imported for storage in the Strategic Petroleum Reserve.
 3 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
 Note: Totals may not equal sum of components due to independent rounding.
 Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, August 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	28,945	334	-	6,893	-	-	-	18	940	958
Algeria	357	-	-	913	-	-	-	18	-	18
Angola	1,543	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	334	-	-	-	-	-	-	-	-
Gabon	708	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	6,633	-	-	2,861	-	-	-	-	-	-
Kuwait	618	-	-	-	-	-	-	-	-	-
Libya	2,117	-	-	-	-	-	-	-	-	-
Nigeria	4,342	-	-	263	-	-	-	-	438	438
Saudi Arabia	11,894	-	-	2,244	-	-	-	-	502	502
United Arab Emirates	733	-	-	612	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	167,287	4,279	450	7,073	-	2,913	2,913	5,318	13,298	18,616
Argentina	948	-	-	-	-	-	-	-	247	247
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	760	760	-	956	956
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	177	-	414	414	203	162	365
Brazil	4,004	-	-	703	-	-	-	-	455	455
Brunei	-	-	-	-	-	-	-	-	287	287
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	119,451	4,278	450	139	-	533	533	1,252	2,197	3,449
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	6,651	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	6	33	39
Ecuador	5,446	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	324	324
France	-	-	-	52	-	136	136	150	124	274
Germany	-	1	-	-	-	-	-	-	11	11
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	335	1,843	2,178
Indonesia	549	-	-	-	-	-	-	-	-	-
Italy	-	-	-	306	-	-	-	92	776	868
Korea, South	-	-	-	-	-	239	239	-	1,335	1,335
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	580	580	-	-	-
Malaysia	-	-	-	1,570	-	-	-	-	276	276
Mexico	19,869	-	-	2,681	-	-	-	-	230	230
Netherlands	-	-	-	-	-	158	158	1,155	472	1,627
Norway	-	-	-	-	-	-	-	307	620	927
Oman	-	-	-	298	-	-	-	-	100	100
Portugal	-	-	-	-	-	-	-	-	1,146	1,146
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	267	-	-	-	-	668	668
Sweden	-	-	-	-	-	-	-	11	20	31
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	1,895	-	-	-	-	-	-	-	-	-
United Kingdom	1,401	-	-	-	-	87	87	1,482	306	1,788
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	7,073	0	0	880	-	6	6	325	710	1,035
Total	196,232	4,613	450	13,966	-	2,913	2,913	5,336	14,238	19,574
Persian Gulf⁴	19,878	-	-	5,717	-	-	-	-	502	502

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, August 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline	
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total			
OPEC	-	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	445	371	421	12	5,132	319	6	-	5,457	-	3	
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	445	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	-	371	-	-	4,368	5	6	-	4,379	-	3	
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	310	-	-	-	310	-	-	
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	454	314	-	-	768	-	-	
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	1	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	421	11	0	0	0	-	0	-	0	
Total	445	371	421	12	5,132	319	6	-	5,457	-	3	
Persian Gulf⁴	-	-	-	-	-	-	-	-	-	-	-	

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, August 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	-	-	-	349	-	327	676	-	-
Algeria	-	-	-	349	-	-	349	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	327	327	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	2,646	1,073	676	772	3,801	5,249	390	89
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	835	835	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	329	9	371	48	520	939	69	81
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	185	185	-	-
Denmark	-	-	-	-	315	-	315	-	-
Ecuador	-	-	-	-	-	308	308	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	8
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	256	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	1,211	1,064	-	-	-	-	63	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	1,953	1,953	136	-
Netherlands	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	10	-	10	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	850	0	305	399	0	704	122	0
Total	-	2,646	1,073	1,025	772	4,128	5,925	390	89
Persian Gulf¹	-	-	-	-	-	327	327	-	-

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, August 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	—	155	—	257	—	9,273	38,218	934	299	1,233
Algeria	—	—	—	—	—	1,280	1,637	12	41	53
Angola	—	—	—	—	—	—	1,543	50	—	50
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	334	334	—	11	11
Gabon	—	—	—	—	—	—	708	23	—	23
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	2,861	9,494	214	92	306
Kuwait	—	155	—	—	—	155	773	20	5	25
Libya	—	—	—	—	—	—	2,117	68	—	68
Nigeria	—	—	—	—	—	701	5,043	140	23	163
Saudi Arabia	—	—	—	—	—	3,073	14,967	384	99	483
United Arab Emirates	—	—	—	257	—	869	1,602	24	28	52
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	164	227	2,146	1,453	1	53,482	220,769	5,396	1,725	7,122
Argentina	—	—	—	4	—	251	1,199	31	8	39
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	1,716	1,716	—	55	55
Bahrain	—	—	—	64	—	64	64	—	2	2
Belgium	—	—	—	3	—	959	959	—	31	31
Brazil	—	1	—	—	—	2,439	6,443	129	79	208
Brunei	—	—	—	—	—	287	287	—	9	9
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	107	23	1,442	302	1	16,904	136,355	3,853	545	4,399
Chad	—	—	—	—	—	—	—	—	—	—
China	24	—	—	—	—	24	24	—	1	1
Colombia	—	—	71	—	—	566	7,217	215	18	233
Denmark	—	—	—	23	—	377	377	—	12	12
Ecuador	—	—	—	—	—	308	5,754	176	10	186
Egypt	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	324	324	—	10	10
France	—	—	—	11	—	481	481	—	16	16
Germany	—	—	—	19	—	31	31	—	1	1
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	1	—	2,435	2,435	—	79	79
Indonesia	—	—	—	194	—	194	743	18	6	24
Italy	—	—	—	11	—	1,185	1,185	—	38	38
Korea, South	—	—	—	364	—	5,044	5,044	—	163	163
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	580	580	—	19	19
Malaysia	12	—	—	—	—	1,859	1,859	—	60	60
Mexico	—	—	—	—	—	5,000	24,869	641	161	802
Netherlands	—	—	—	2	—	1,787	1,787	—	58	58
Norway	—	—	—	—	—	927	927	—	30	30
Oman	—	—	—	—	—	398	398	—	13	13
Portugal	—	—	—	—	—	1,146	1,146	—	37	37
Qatar	—	—	—	431	—	431	431	—	14	14
Russia	—	—	—	—	—	—	—	—	—	—
Spain	2	202	309	—	—	1,448	1,448	—	47	47
Sweden	—	1	—	—	—	32	32	—	1	1
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	1,895	61	—	61
United Kingdom	—	—	—	—	—	1,885	3,286	45	61	106
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	19	0	324	24	0	4,400	11,473	227	141	368
Total	164	382	2,146	1,710	1	62,755	258,987	6,330	2,024	8,354
Persian Gulf⁴	—	155	—	752	—	7,453	27,331	641	240	882

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-August 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	238,145	1,445	-	44,610	-	722	722	1,380	8,033	9,413
Algeria	1,938	506	-	9,269	-	-	-	18	-	18
Angola	10,543	16	-	-	-	18	18	-	630	630
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	813	-	-	-	-	-	-	-	-
Gabon	708	-	-	-	-	-	-	-	-	-
Iran	507	-	-	-	-	-	-	-	-	-
Iraq	59,683	-	-	14,332	-	-	-	-	-	-
Kuwait	5,805	-	-	2,311	-	-	-	-	-	17
Libya	17,918	-	-	46	-	-	-	-	-	-
Nigeria	23,763	110	-	691	-	-	-	-	1,720	1,720
Saudi Arabia	112,892	-	-	13,946	-	704	704	1,063	5,462	6,525
United Arab Emirates	4,388	-	-	4,015	-	-	-	282	221	503
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	1,298,902	36,386	3,940	83,329	-	23,719	23,719	37,729	91,735	129,464
Argentina	13,182	-	-	-	-	16	16	-	1,481	1,481
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	700	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	2,579	2,579	-	2,037	2,037
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	530	-	2,840	2,840	724	1,343	2,067
Brazil	31,538	-	-	2,634	-	-	-	-	1,901	1,901
Brunei	-	-	-	-	-	-	-	-	287	287
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	929,580	36,025	3,915	4,653	-	3,331	3,331	16,640	13,521	30,161
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	56,971	-	-	725	-	-	-	-	14	14
Denmark	-	-	-	-	-	-	-	10	140	150
Ecuador	32,293	-	-	3,891	-	-	-	-	-	-
Egypt	-	-	-	1,366	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	100	-	41	41	-	4,846	4,846
France	-	-	-	1,643	-	1,776	1,776	1,179	2,312	3,491
Germany	-	2	-	83	-	333	333	-	578	578
Guatemala	589	-	-	-	-	-	-	-	-	-
India	-	-	-	516	-	297	297	677	16,614	17,291
Indonesia	549	-	-	-	-	-	-	-	-	-
Italy	-	-	-	1,884	-	1,623	1,623	92	4,693	4,785
Korea, South	-	6	-	-	-	3,325	3,325	-	3,733	3,733
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	1,256	1,256	-	650	650
Malaysia	-	-	-	2,118	-	-	-	-	437	437
Mexico	159,690	-	25	17,048	-	-	-	-	961	961
Netherlands	-	-	-	1,753	-	2,316	2,316	7,633	4,834	12,467
Norway	5,460	196	-	-	-	278	278	1,114	2,240	3,354
Oman	-	-	-	298	-	-	-	-	308	308
Portugal	-	-	-	-	-	348	348	3	5,365	5,368
Qatar	-	-	-	566	-	8	8	8	12	20
Russia	7,390	-	-	35,999	-	331	331	-	2,302	2,302
Spain	-	-	-	615	-	1,065	1,065	111	6,819	6,930
Sweden	-	-	-	-	-	230	230	11	1,572	1,583
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	10,622	157	-	-	-	39	39	-	-	-
United Kingdom	8,100	-	-	297	-	1,244	1,244	9,080	3,487	12,567
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	42,238	0	0	6,610	-	443	443	447	9,248	9,695
Total	1,537,047	37,831	3,940	127,939	-	24,441	24,441	39,109	99,768	138,877
Persian Gulf⁴	183,275	-	-	35,170	-	712	712	1,370	5,695	7,065

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-August 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	-	-	-	-	3,110	-	-	-	3,110	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	645	-	-	-	645	-	-
Saudi Arabia	-	-	-	-	2,417	-	-	-	2,417	-	-
United Arab Emirates	-	-	-	-	48	-	-	-	48	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	952	3,133	4,137	62	43,177	1,378	305	190	45,050	18	225
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	776	-	62	-	838	-	-
Brazil	945	-	-	-	-	25	-	-	25	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	7	1,647	-	-	32,248	93	133	-	32,474	-	47
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	1	-	-	-	1	-	-
Colombia	-	-	-	-	717	-	-	-	717	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	190	190	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	49
Finland	-	-	-	50	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	783	-	-	20	-	-	-	20	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	117	-	-	-	-	-	-	-	-	-
Korea, South	-	153	-	-	1,048	1,260	-	-	2,308	18	13
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	1	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	49	-	2,850	-	-	-	2,850	-	116
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	256	-	-	-	256	-	-
Qatar	-	-	-	-	3,004	-	-	-	3,004	-	-
Russia	-	-	-	-	2,157	-	110	-	2,267	-	-
Spain	-	433	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	4,088	11	100	0	0	0	100	0	0
Total	952	3,133	4,137	62	46,287	1,378	305	190	48,160	18	225
Persian Gulf⁴	-	-	-	-	5,469	-	-	-	5,469	-	-

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-August 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	—	1,851	—	1,229	62	2,285	3,576	70	—
Algeria	—	—	—	1,229	—	5	1,234	—	—
Angola	—	—	—	—	—	—	—	70	—
Congo (Brazzaville)	—	—	—	—	62	30	92	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	574	574	—	—
Kuwait	—	1,180	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	396	—	—	—	1,672	1,672	—	—
United Arab Emirates	—	275	—	—	—	4	4	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	27,334	3,138	676	7,107	42,210	49,993	2,912	806
Argentina	—	—	—	—	—	1	1	—	98
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	32	829	861	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	268	268	—	—
Brazil	—	—	—	—	92	5,062	5,154	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	2,834	831	371	844	3,566	4,781	718	628
Chad	—	—	—	—	—	—	—	—	—
China	—	933	—	—	—	—	—	—	—
Colombia	—	—	—	—	225	3,043	3,268	—	—
Denmark	—	—	—	—	383	—	383	—	—
Ecuador	—	—	—	—	100	869	969	—	—
Egypt	—	—	—	—	27	—	27	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	102	102	69	70
Germany	—	—	15	—	272	14	286	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	834	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	61	61	—	—
Korea, South	—	16,111	2,061	—	—	—	—	197	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	1,119	1,119	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	10	37	—	616	21,416	22,032	750	—
Netherlands	—	—	9	—	366	693	1,059	—	—
Norway	—	—	—	—	361	—	361	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	442	—	—	—	—	—	9	—
Russia	—	—	—	—	1,097	4,388	5,485	—	—
Spain	—	—	1	—	683	8	691	25	—
Sweden	—	—	—	—	111	—	111	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	419	11	430	47	10
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	6,170	184	305	1,479	760	2,544	1,097	0
Total	—	29,185	3,138	1,905	7,169	44,495	53,569	2,982	806
Persian Gulf¹	—	2,293	—	—	—	2,250	2,250	9	—

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-August 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	—	155	—	1,558	—	66,510	304,655	980	274	1,254
Algeria	—	—	—	—	—	11,027	12,965	8	45	53
Angola	—	—	—	—	—	734	11,277	43	3	46
Congo (Brazzaville)	—	—	—	—	—	92	92	—	0	0
Equatorial Guinea	—	—	—	—	—	813	813	—	3	3
Gabon	—	—	—	—	—	—	708	3	—	3
Iran	—	—	—	—	—	—	507	2	—	2
Iraq	—	—	—	—	—	14,906	74,589	246	61	307
Kuwait	—	155	—	—	—	3,663	9,468	24	15	39
Libya	—	—	—	—	—	46	17,964	74	0	74
Nigeria	—	—	—	—	—	3,166	26,929	98	13	111
Saudi Arabia	—	—	—	29	—	25,689	138,581	465	106	570
United Arab Emirates	—	—	—	1,529	—	6,374	10,762	18	26	44
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	1,437	2,380	13,320	10,044	8	441,856	1,740,758	5,345	1,818	7,164
Argentina	—	726	—	34	—	2,356	15,538	54	10	64
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	700	3	—	3
Bahamas	—	—	—	—	—	5,477	5,477	—	23	23
Bahrain	—	—	—	539	—	539	539	—	2	2
Belgium	—	—	—	27	—	6,570	6,570	—	27	27
Brazil	—	1,075	—	—	—	11,787	43,325	130	49	178
Brunei	—	—	—	—	—	287	287	—	1	1
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	789	167	12,116	2,336	8	137,468	1,067,048	3,825	566	4,391
Chad	—	—	—	—	—	—	—	—	—	—
China	179	—	—	—	—	1,113	1,113	—	5	5
Colombia	—	—	230	—	—	4,954	61,925	234	20	255
Denmark	—	—	—	23	—	556	556	—	2	2
Ecuador	—	—	—	—	—	5,050	37,343	133	21	154
Egypt	—	—	—	—	—	1,393	1,393	—	6	6
Estonia	—	—	—	—	—	49	49	—	0	0
Finland	—	—	—	—	—	5,037	5,037	—	21	21
France	—	—	—	86	—	7,237	7,237	—	30	30
Germany	—	139	—	101	—	2,340	2,340	—	10	10
Guatemala	—	—	—	—	—	—	589	2	—	2
India	—	—	—	6	—	18,944	18,944	—	78	78
Indonesia	—	—	—	919	—	919	1,468	2	4	6
Italy	—	—	98	87	—	8,655	8,655	—	36	36
Korea, South	5	—	—	2,776	—	30,706	30,706	—	126	126
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	3,025	3,025	—	12	12
Malaysia	147	—	—	—	—	2,703	2,703	—	11	11
Mexico	4	—	—	—	—	40,867	200,557	657	168	825
Netherlands	—	—	—	409	—	21,028	21,028	—	87	87
Norway	—	—	—	—	—	4,189	9,649	22	17	40
Oman	—	—	—	65	—	671	671	—	3	3
Portugal	—	—	—	—	—	5,972	5,972	—	25	25
Qatar	—	—	—	2,505	—	6,554	6,554	—	27	27
Russia	—	—	—	5	—	46,389	53,779	30	191	221
Spain	10	202	437	—	—	10,409	10,409	—	43	43
Sweden	—	3	—	3	—	1,930	1,930	—	8	8
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	196	10,818	44	1	45
United Kingdom	52	27	—	—	—	14,674	22,774	33	60	94
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	251	41	439	123	0	31,812	74,050	176	128	303
Total	1,437	2,535	13,320	11,602	8	508,366	2,045,413	6,325	2,092	8,417
Persian Gulf⁴	—	155	—	4,602	—	57,725	241,000	754	238	992

— = Not Applicable.
 - = No Data Reported.
 1 Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.
 2 Includes crude oil imported for storage in the Strategic Petroleum Reserve.
 3 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
 4 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
 Note: Totals may not equal sum of components due to independent rounding.
 Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	11,095	269	-	263	-	-	-	18	940	958
Algeria	357	-	-	-	-	-	-	18	-	18
Angola	1,543	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	269	-	-	-	-	-	-	-	-
Gabon	708	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	1,517	-	-	-	-	-	-	-	-	-
Nigeria	4,342	-	-	263	-	-	-	-	438	438
Saudi Arabia	2,628	-	-	-	-	-	-	-	502	502
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	9,384	363	315	319	-	2,500	2,500	4,901	11,382	16,283
Argentina	-	-	-	-	-	-	-	-	226	226
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	760	760	-	956	956
Bahrain	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	414	414	203	162	365
Brunei	-	-	-	-	-	-	-	-	432	432
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	3,877	363	315	-	-	359	359	1,252	1,819	3,071
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	6	33	39
Ecuador	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	324	324
France	-	-	-	52	-	136	136	150	124	274
Germany	-	-	-	-	-	-	-	-	11	11
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	335	1,843	2,178
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	776	776
Korea, South	-	-	-	-	-	-	-	-	301	301
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	580	580	-	-	-
Malaysia	-	-	-	-	-	-	-	-	276	276
Mexico	2,517	-	-	-	-	-	-	-	230	230
Netherlands	-	-	-	-	-	158	158	1,155	472	1,627
Norway	-	-	-	-	-	-	-	307	620	927
Oman	-	-	-	-	-	-	-	-	100	100
Portugal	-	-	-	-	-	-	-	-	1,146	1,146
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	267	-	-	-	-	668	668
Sweden	-	-	-	-	-	-	-	11	20	31
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	467	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	87	87	1,482	306	1,788
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	2,523	0	0	0	-	6	6	0	537	537
Total	20,479	632	315	582	-	2,500	2,500	4,919	12,322	17,241
Persian Gulf⁴	2,628	-	-	-	-	-	-	-	502	502

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline	
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total			
OPEC	-	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	122	-	-	3,679	1	-	-	3,680	-	-	-
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	-	122	-	-	3,369	1	-	-	3,370	-	-	-
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	310	-	-	-	310	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	0	0	-	-	0	-	-	-
Total	-	122	-	-	3,679	1	-	-	3,680	-	-	-
Persian Gulf⁴	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	-	-	-	349	-	220	569	-	-
Algeria	-	-	-	349	-	-	349	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	220	220	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	524	1	676	724	629	2,029	75	3
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	268	1	371	-	108	479	2	3
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	185	185	-	-
Denmark	-	-	-	-	315	-	315	-	-
Ecuador	-	-	-	-	-	109	109	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	256	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	63	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	227	227	-	-
Netherlands	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	10	-	10	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	0	0	305	399	0	704	10	0
Total	-	524	1	1,025	724	849	2,598	75	3
Persian Gulf¹	-	-	-	-	-	220	220	-	-

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	—	—	—	—	—	2,059	13,154	358	66	424
Algeria	—	—	—	—	—	367	724	12	12	23
Angola	—	—	—	—	—	—	1,543	50	—	50
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	269	269	—	9	9
Gabon	—	—	—	—	—	—	708	23	—	23
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	1,517	49	—	49
Nigeria	—	—	—	—	—	701	5,043	140	23	163
Saudi Arabia	—	—	—	—	—	722	3,350	85	23	108
United Arab Emirates	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	104	1	1,401	136	—	27,856	37,240	303	899	1,201
Argentina	—	—	—	—	—	226	226	—	7	7
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	1,716	1,716	—	55	55
Bahrain	—	—	—	—	—	—	—	—	—	—
Brazil	—	1	—	—	1	780	780	—	25	25
Brunei	—	—	—	—	—	433	433	—	14	14
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	96	—	768	81	—	9,298	13,175	125	300	425
Chad	—	—	—	—	—	—	—	—	—	—
China	1	—	—	—	—	1	1	—	0	0
Colombia	—	—	71	—	—	566	566	—	18	18
Denmark	—	—	—	23	—	377	377	—	12	12
Ecuador	—	—	—	—	—	109	109	—	4	4
Egypt	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	324	324	—	10	10
France	—	—	—	10	—	472	472	—	15	15
Germany	—	—	—	14	—	25	25	—	1	1
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	2,434	2,434	—	79	79
Indonesia	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	3	—	779	779	—	25	25
Korea, South	—	—	—	—	—	364	364	—	12	12
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	580	580	—	19	19
Malaysia	2	—	—	—	—	278	278	—	9	9
Mexico	—	—	—	—	—	457	2,974	81	15	96
Netherlands	—	—	—	2	—	1,787	1,787	—	58	58
Norway	—	—	—	—	—	927	927	—	30	30
Oman	—	—	—	—	—	100	100	—	3	3
Portugal	—	—	—	—	—	1,146	1,146	—	37	37
Qatar	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—	—
Spain	2	—	238	—	—	1,175	1,175	—	38	38
Sweden	—	—	—	—	—	31	31	—	1	1
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	467	15	—	15
United Kingdom	—	—	—	—	—	1,885	1,885	—	61	61
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	3	0	324	2	—	1,586	4,109	82	51	132
Total	104	1	1,401	136	—	29,915	50,394	661	965	1,626
Persian Gulf⁴	—	—	—	—	—	722	3,350	85	23	108

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	84,270	2,217	135	-	-	-	-	-	320	320
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	84,270	2,217	135	-	-	-	-	-	320	320
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	-	-	-	-	-	0	0
Total	84,270	2,217	135	-	-	-	-	-	320	320
Persian Gulf⁴	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline	
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total			
OPEC	-	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	131	-	-	375	4	6	-	385	-	2	
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	-	131	-	-	375	4	6	-	385	-	2	
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	0	0	0	-	0	-	0	
Total	-	131	-	-	375	4	6	-	385	-	2	
Persian Gulf⁴	-	-	-	-	-	-	-	-	-	-	-	

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	8	-	5	142	147	67	53
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	-	8	-	5	142	147	67	53
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	-	0	-	0	0	0	0	0
Total	-	-	8	-	5	142	147	67	53
Persian Gulf¹	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	14	24	550	215	-	4,268	88,538	2,718	138	2,856
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	11	23	550	215	-	4,264	88,534	2,718	138	2,856
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	1	-	-	-	1	1	-	0	0
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	3	0	0	0	-	3	3	0	0	0
Total	14	24	550	215	-	4,268	88,538	2,718	138	2,856
Persian Gulf⁴	-	-	-	-	-	-	-	-	-	-

-- = Not Applicable.

- = No Data Reported.

1 Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

2 Includes crude oil imported for storage in the Strategic Petroleum Reserve.

3 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

4 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	9,369	-	-	5,216	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	2,516	-	-	2,861	-	-	-	-	-	-
Kuwait	618	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	6,235	-	-	1,743	-	-	-	-	-	-
United Arab Emirates	-	-	-	612	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	37,768	1	-	6,258	-	-	-	417	1,538	1,955
Argentina	-	-	-	-	-	-	-	-	21	21
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	703	-	-	-	-	23	23
Brunei	-	-	-	-	-	-	-	-	287	287
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	15,606	-	-	139	-	-	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	5,152	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	306	-	-	-	92	-	92
Korea, South	-	-	-	-	-	-	-	-	1,034	1,034
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	1,570	-	-	-	-	-	-
Mexico	15,205	-	-	2,362	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	298	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	903	-	-	-	-	-	-	-	-	-
United Kingdom	902	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	1	-	880	-	-	-	325	173	498
Total	47,137	1	-	11,474	-	-	-	417	1,538	1,955
Persian Gulf⁴	9,369	-	-	5,216	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline	
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total			
OPEC	-	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	71	-	-	-	-	-	-	-	-	-	-
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	-	71	-	-	-	-	-	-	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	-	-	-	-	-	-	-	-
Total	-	71	-	-	-	-	-	-	-	-	-	-
Persian Gulf⁴	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	-	-	-	-	-	107	107	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	107	107	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	1,064	-	-	2,955	2,955	178	33
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	835	835	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	195	195	-	25
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	199	199	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	8
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	1,064	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	1,726	1,726	136	-
Netherlands	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	-	0	-	-	0	0	42	0
Total	-	-	1,064	-	-	3,062	3,062	178	33
Persian Gulf⁴	-	-	-	-	-	107	107	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	—	155	—	257	—	5,735	15,104	302	185	487
Algeria	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	2,861	5,377	81	92	173
Kuwait	—	155	—	—	—	155	773	20	5	25
Libya	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	1,850	8,085	201	60	261
United Arab Emirates	—	—	—	257	—	869	869	—	28	28
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	21	202	—	1,097	—	13,839	51,607	1,218	446	1,665
Argentina	—	—	—	4	—	25	25	—	1	1
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	64	—	64	64	—	2	2
Belgium	—	—	—	2	—	2	2	—	0	0
Brazil	—	—	—	—	—	1,561	1,561	—	50	50
Brunei	—	—	—	—	—	287	287	—	9	9
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	2	—	432	16,038	503	14	517
Chad	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	5,152	166	—	166
Denmark	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	199	199	—	6	6
Egypt	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—
France	—	—	—	1	—	9	9	—	0	0
Germany	—	—	—	5	—	6	6	—	0	0
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	1	—	1	1	—	0	0
Indonesia	—	—	—	194	—	194	194	—	6	6
Italy	—	—	—	8	—	406	406	—	13	13
Korea, South	—	—	—	364	—	2,462	2,462	—	79	79
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—
Malaysia	10	—	—	—	—	1,580	1,580	—	51	51
Mexico	—	—	—	—	—	4,224	19,429	490	136	627
Netherlands	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	298	298	—	10	10
Portugal	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	431	—	431	431	—	14	14
Russia	—	—	—	—	—	—	—	—	—	—
Spain	—	202	—	—	—	202	202	—	7	7
Sweden	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	903	29	—	29
United Kingdom	—	—	—	—	—	—	902	29	—	29
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	11	0	—	21	—	1,456	1,456	1	48	49
Total	21	357	—	1,354	—	19,574	66,711	1,521	631	2,152
Persian Gulf⁴	—	155	—	752	—	6,230	15,599	302	201	503

-- = Not Applicable.

- = No Data Reported.

1 Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

2 Includes crude oil imported for storage in the Strategic Petroleum Reserve.

3 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

4 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
PAD District 4										
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	8,585	301	-	-	-	-	-	-	12	12
Canada	8,585	301	-	-	-	-	-	-	12	12
Ecuador	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Other	0	0	-	-	-	-	-	-	0	0
Total	8,585	301	-	-	-	-	-	-	12	12
PAD District 5										
OPEC	8,481	-	-	1,414	-	-	-	-	-	-
Algeria	-	-	-	913	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	4,117	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	600	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	3,031	-	-	501	-	-	-	-	-	-
United Arab Emirates	733	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	27,280	1,397	-	496	-	413	413	-	46	46
Argentina	948	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Brazil	4,004	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Canada	7,113	1,397	-	-	-	174	174	-	46	46
China	-	-	-	-	-	-	-	-	-	-
Colombia	1,499	-	-	-	-	-	-	-	-	-
Ecuador	5,446	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Indonesia	549	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	239	239	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	2,147	-	-	319	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	321	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-
United Kingdom	499	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	4,754	0	-	177	-	0	0	-	0	0
Total	35,761	1,462	-	1,910	-	413	413	-	46	46
Persian Gulf⁴	7,881	-	-	501	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
PAD District 4											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	6	-	-	104	-	-	-	104	-	-
Canada	-	6	-	-	104	-	-	-	104	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	0	-	-	-	0	-	-
Total	-	6	-	-	104	-	-	-	104	-	-
PAD District 5											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	445	41	421	12	974	314	-	-	1,288	-	1
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Brazil	445	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Canada	-	41	-	-	520	-	-	-	520	-	1
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	10	-	-	-	-	-	-	-
Korea, South	-	-	-	-	454	314	-	-	768	-	-
Malaysia	-	-	-	1	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	421	1	0	0	-	-	0	-	0
Total	445	41	421	12	974	314	-	-	1,288	-	1
Persian Gulf⁴	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
PAD District 4									
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	20	-	-	-	-	-	-	-
Canada	-	20	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	-	-	-	-	-
Total	-	20	-	-	-	-	-	-	-
PAD District 5									
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	2,102	-	-	43	75	118	70	-
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Canada	-	41	-	-	43	75	118	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Japan	-	850	-	-	-	-	-	-	-
Korea, South	-	1,211	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	70	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	0	0	0	0	-
Total	-	2,102	-	-	43	75	118	70	-
Persian Gulf⁴	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
PAD District 4										
OPEC	—	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	—	53	—	1	497	9,082	277	16	293
Canada	—	—	53	—	1	497	9,082	277	16	293
Ecuador	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	—	0	0	0	0	0	0
Total	—	—	53	—	1	497	9,082	277	16	293
PAD District 5										
OPEC	—	—	—	—	—	1,479	9,960	274	48	321
Algeria	—	—	—	—	—	913	913	—	29	29
Angola	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	4,117	133	—	133
Kuwait	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	600	19	—	19
Nigeria	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	501	3,532	98	16	114
United Arab Emirates	—	—	—	—	—	—	733	24	—	24
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	25	—	142	5	—	7,022	34,302	880	227	1,107
Argentina	—	—	—	—	—	—	948	31	—	31
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	445	4,449	129	14	144
Brunei	—	—	—	—	—	—	—	—	—	—
Canada	—	—	71	4	—	2,413	9,526	229	78	307
China	23	—	—	—	—	23	23	—	1	1
Colombia	—	—	—	—	—	—	1,499	48	—	48
Ecuador	—	—	—	—	—	—	5,446	176	—	176
Finland	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	549	18	—	18
Japan	—	—	—	1	—	861	861	—	28	28
Korea, South	—	—	—	—	—	2,218	2,218	—	72	72
Malaysia	—	—	—	—	—	1	1	—	0	0
Mexico	—	—	—	—	—	319	2,466	69	10	80
Netherlands	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	321	10	—	10
Papua New Guinea	—	—	—	—	—	—	—	—	—	—
Peru	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—
Singapore	—	—	—	—	—	422	422	—	14	14
Sweden	—	—	—	—	—	—	—	—	—	—
Taiwan	2	—	—	—	—	72	72	—	2	2
United Kingdom	—	—	—	—	—	—	499	16	—	16
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Other	0	—	71	0	—	248	5,002	154	8	160
Total	25	—	142	5	—	8,501	44,262	1,154	274	1,428
Persian Gulf⁴	—	—	—	—	—	501	8,382	254	16	270

-- = Not Applicable.

- = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-August 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	66,498	1,015	-	1,516	-	344	344	829	7,247	8,076
Algeria	1,938	506	-	-	-	-	-	18	-	18
Angola	7,786	-	-	-	-	18	18	-	630	630
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	509	-	-	-	-	-	-	-	-
Gabon	708	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	346	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	13,246	-	-	-	-	-	-	-	-	-
Nigeria	23,763	-	-	691	-	-	-	-	1,720	1,720
Saudi Arabia	19,057	-	-	479	-	326	326	514	4,676	5,190
United Arab Emirates	-	-	-	-	-	-	-	282	221	503
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	79,547	7,298	2,507	7,871	-	17,941	17,941	36,574	68,519	105,093
Argentina	966	-	-	-	-	16	16	-	769	769
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	2,136	2,136	-	1,692	1,692
Bahrain	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	2,840	2,840	724	1,164	1,888
Brunei	-	-	-	-	-	-	-	-	1,659	1,659
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	32,852	7,102	2,507	-	-	2,407	2,407	16,640	9,274	25,914
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	1,493	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	10	40	50
Ecuador	-	-	-	202	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	100	-	41	41	-	4,469	4,469
France	-	-	-	612	-	1,728	1,728	1,177	2,080	3,257
Germany	-	-	-	-	-	333	333	-	411	411
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	333	-	-	-	623	11,131	11,754
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	1,623	1,623	-	4,252	4,252
Korea, South	-	-	-	-	-	-	-	-	641	641
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	1,256	1,256	-	632	632
Malaysia	-	-	-	-	-	-	-	-	437	437
Mexico	11,969	-	-	2,607	-	-	-	-	730	730
Netherlands	-	-	-	124	-	2,316	2,316	6,959	4,596	11,555
Norway	5,460	196	-	-	-	278	278	1,114	2,240	3,354
Oman	-	-	-	-	-	-	-	-	308	308
Portugal	-	-	-	-	-	348	348	3	5,365	5,368
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	3,098	-	-	2,793	-	-	-	-	2,153	2,153
Spain	-	-	-	447	-	1,065	1,065	111	6,447	6,558
Sweden	-	-	-	-	-	230	230	11	1,306	1,317
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	2,461	-	-	-	-	39	39	-	-	-
United Kingdom	1,082	-	-	1	-	1,159	1,159	9,080	2,800	11,880
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	19,458	0	0	652	-	126	126	122	3,923	4,045
Total	146,045	8,313	2,507	9,387	-	18,285	18,285	37,403	75,766	113,169
Persian Gulf⁴	19,057	-	-	825	-	326	326	811	4,897	5,708

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-August 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	-	-	-	-	3,110	-	-	-	3,110	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	645	-	-	-	645	-	-
Saudi Arabia	-	-	-	-	2,417	-	-	-	2,417	-	-
United Arab Emirates	-	-	-	-	48	-	-	-	48	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	1,393	-	-	34,669	52	62	-	34,783	-	92
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	776	-	62	-	838	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	438	-	-	25,024	52	-	-	25,076	-	7
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	1	-	-	-	1	-	-
Colombia	-	-	-	-	717	-	-	-	717	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	712	-	-	20	-	-	-	20	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	2,850	-	-	-	2,850	-	85
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	256	-	-	-	256	-	-
Qatar	-	-	-	-	3,004	-	-	-	3,004	-	-
Russia	-	-	-	-	2,021	-	-	-	2,021	-	-
Spain	-	243	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	0	0	0	-	0	-	0
Total	-	1,393	-	-	37,779	52	62	-	37,893	-	92
Persian Gulf⁴	-	-	-	-	5,469	-	-	-	5,469	-	-

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-August 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	—	1,851	—	349	62	432	843	70	—
Algeria	—	—	—	349	—	5	354	—	—
Angola	—	—	—	—	—	—	—	70	—
Congo (Brazzaville)	—	—	—	—	62	30	92	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	1,180	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	396	—	—	—	393	393	—	—
United Arab Emirates	—	275	—	—	—	4	4	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	4,764	113	676	3,888	9,378	13,942	410	10
Argentina	—	—	—	—	—	1	1	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	32	324	356	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	29	29	—	—
Brazil	—	—	—	—	4	205	209	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	2,185	113	371	61	1,212	1,644	16	10
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	225	2,725	2,950	—	—
Denmark	—	—	—	—	383	—	383	—	—
Ecuador	—	—	—	—	100	670	770	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	102	102	69	—
Germany	—	—	—	—	272	14	286	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	834	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	1,034	—	—	—	—	—	63	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	10	—	—	616	2,433	3,049	—	—
Netherlands	—	—	—	—	366	456	822	—	—
Norway	—	—	—	—	361	—	361	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	442	—	—	—	—	—	—	—
Russia	—	—	—	—	—	882	882	—	—
Spain	—	—	—	—	683	8	691	—	—
Sweden	—	—	—	—	111	—	111	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	29	11	40	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	259	0	305	645	306	1,256	262	0
Total	—	6,615	113	1,025	3,950	9,810	14,785	480	10
Persian Gulf¹	—	2,293	—	—	—	397	397	—	—

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-August 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	—	—	—	94	—	16,919	83,417	274	70	343
Algeria	—	—	—	—	—	878	2,816	8	4	12
Angola	—	—	—	—	—	718	8,504	32	3	35
Congo (Brazzaville)	—	—	—	—	—	92	92	—	0	0
Equatorial Guinea	—	—	—	—	—	509	509	—	2	2
Gabon	—	—	—	—	—	—	708	3	—	3
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	346	346	—	1	1
Kuwait	—	—	—	—	—	1,195	1,195	—	5	5
Libya	—	—	—	—	—	—	13,246	55	—	55
Nigeria	—	—	—	—	—	3,056	26,819	98	13	110
Saudi Arabia	—	—	—	—	—	9,201	28,258	78	38	116
United Arab Emirates	—	—	—	94	—	924	924	—	4	4
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	776	11	8,031	921	—	205,956	285,503	327	848	1,175
Argentina	—	—	—	—	—	786	1,752	4	3	7
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	4,184	4,184	—	17	17
Bahrain	—	—	—	19	—	19	19	—	0	0
Belgium	—	—	—	2	—	5,597	5,597	—	23	23
Brazil	—	2	—	—	—	1,870	1,870	—	8	8
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	676	—	7,028	572	—	75,695	108,547	135	312	447
Chad	—	—	—	—	—	—	—	—	—	—
China	72	—	—	—	—	73	73	—	0	0
Colombia	—	—	230	—	—	3,897	5,390	6	16	22
Denmark	—	—	—	23	—	456	456	—	2	2
Ecuador	—	—	—	—	—	972	972	—	4	4
Egypt	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	4,610	4,610	—	19	19
France	—	—	—	67	—	5,835	5,835	—	24	24
Germany	—	—	—	75	—	1,837	1,837	—	8	8
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	12,921	12,921	—	53	53
Indonesia	—	—	—	—	—	—	—	—	—	—
Italy	—	—	98	24	—	5,997	5,997	—	25	25
Korea, South	5	—	—	67	—	1,810	1,810	—	7	7
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	1,888	1,888	—	8	8
Malaysia	6	—	—	—	—	443	443	—	2	2
Mexico	—	—	—	—	—	6,396	18,365	49	26	76
Netherlands	—	—	—	57	—	17,809	17,809	—	73	73
Norway	—	—	—	—	—	4,189	9,649	22	17	40
Oman	—	—	—	—	—	308	308	—	1	1
Portugal	—	—	—	—	—	5,972	5,972	—	25	25
Qatar	—	—	—	—	—	3,446	3,446	—	14	14
Russia	—	—	—	5	—	7,854	10,952	13	32	45
Spain	8	—	294	—	—	9,306	9,306	—	38	38
Sweden	—	—	—	3	—	1,661	1,661	—	7	7
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	39	2,500	10	0	10
United Kingdom	—	2	—	—	—	13,082	14,164	4	54	58
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	9	7	381	7	—	7,004	26,462	81	30	109
Total	776	11	8,031	1,015	—	222,875	368,920	601	917	1,518
Persian Gulf⁴	—	—	—	113	—	15,131	34,188	78	62	141

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-August 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	630,010	15,790	1,408	-	-	-	-	-	3,472	3,472
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	630,010	15,784	1,408	-	-	-	-	-	3,472	3,472
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	6	0	-	-	-	-	-	0	0
Total	630,010	15,790	1,408	-	-	-	-	-	3,472	3,472
Persian Gulf⁴	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-August 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline	
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total			
OPEC	-	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	605	-	-	2,209	41	129	-	2,379	-	33	
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	-	605	-	-	2,209	41	129	-	2,379	-	33	
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	0	0	0	-	0	-	0	
Total	-	605	-	-	2,209	41	129	-	2,379	-	33	
Persian Gulf⁴	-	-	-	-	-	-	-	-	-	-	-	

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-August 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	34	58	-	84	937	1,021	691	516
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	34	58	-	84	937	1,021	691	516
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	0	0	-	0	0	0	0	0
Total	-	34	58	-	84	937	1,021	691	516
Persian Gulf⁴	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-August 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	116	170	4,062	1,723	-	32,078	662,088	2,593	132	2,725
Argentina	-	-	-	4	-	4	4	-	0	0
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	113	167	4,062	1,715	-	32,058	662,068	2,593	132	2,725
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	1	-	1	1	-	0	0
Germany	-	-	-	3	-	3	3	-	0	0
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	6	6	-	0	0
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	3	-	-	-	3	3	-	0	0
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	3	0	0	0	-	3	3	0	0	0
Total	116	170	4,062	1,723	-	32,078	662,088	2,593	132	2,725
Persian Gulf⁴	-	-	-	-	-	-	-	-	-	-

-- = Not Applicable.

- = No Data Reported.

1 Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

2 Includes crude oil imported for storage in the Strategic Petroleum Reserve.

3 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

4 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-August 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	78,214	16	-	34,083	-	-	-	-	-	-
Algeria	-	-	-	2,033	-	-	-	-	-	-
Angola	949	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	507	-	-	-	-	-	-	-	-	-
Iraq	13,888	-	-	13,986	-	-	-	-	-	-
Kuwait	4,331	-	-	2,311	-	-	-	-	-	-
Libya	-	-	-	46	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	58,539	-	-	11,692	-	-	-	-	-	-
United Arab Emirates	-	-	-	4,015	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	330,052	2	25	68,156	-	179	179	417	12,588	13,005
Argentina	-	-	-	-	-	-	-	-	712	712
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	46	46
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	353	-	-	-	-	179	179
Brazil	1,943	-	-	2,634	-	-	-	-	242	242
Brunei	-	-	-	-	-	-	-	-	287	287
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	136,046	-	-	3,948	-	-	-	-	26	26
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	40,087	-	-	526	-	-	-	-	14	14
Denmark	-	-	-	-	-	-	-	-	100	100
Ecuador	-	-	-	3,084	-	-	-	-	-	-
Egypt	-	-	-	1,366	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	377	377
France	-	-	-	1,031	-	48	48	-	231	231
Germany	-	-	-	83	-	-	-	-	167	167
Guatemala	589	-	-	-	-	-	-	-	-	-
India	-	-	-	183	-	-	-	-	2,854	2,854
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	1,884	-	-	-	92	441	533
Korea, South	-	-	-	-	-	-	-	-	1,570	1,570
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	18	18
Malaysia	-	-	-	2,118	-	-	-	-	-	-
Mexico	136,469	-	25	10,955	-	-	-	-	231	231
Netherlands	-	-	-	1,629	-	-	-	-	153	153
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	298	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	566	-	-	-	-	-	-
Russia	-	-	-	31,716	-	46	46	-	149	149
Spain	-	-	-	168	-	-	-	-	372	372
Sweden	-	-	-	-	-	-	-	-	94	94
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	6,106	-	-	-	-	-	-	-	-	-
United Kingdom	6,519	-	-	296	-	85	85	-	392	392
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	2,293	2	0	5,318	-	0	0	325	3,933	4,258
Total	408,266	18	25	102,239	-	179	179	417	12,588	13,005
Persian Gulf⁴	77,265	-	-	32,570	-	-	-	-	-	-

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-August 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline	
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total			
OPEC	-	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	449	-	50	136	25	110	-	271	-	-	80
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	25	-	-	25	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	-	71	-	-	-	-	-	-	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-	49
Finland	-	-	-	50	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	71	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	117	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-	31
Norway	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	136	-	110	-	246	-	-	-
Spain	-	190	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	0	-	0	0	0	0	-	0	-	-	0
Total	-	449	-	50	136	25	110	-	271	-	-	80
Persian Gulf⁴	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-August 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	-	-	-	880	-	1,818	2,698	-	-
Algeria	-	-	-	880	-	-	880	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	539	539	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	1,279	1,279	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	2,967	-	2,021	30,874	32,895	1,531	280
Argentina	-	-	-	-	-	-	-	-	98
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	505	505	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	239	239	-	-
Brazil	-	-	-	-	88	4,857	4,945	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	-	660	-	282	679	961	11	102
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	318	318	-	-
Denmark	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	199	199	-	-
Egypt	-	-	-	-	27	-	27	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	70
Germany	-	-	15	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	61	61	-	-
Korea, South	-	-	2,061	-	-	-	-	121	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	1,119	1,119	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	37	-	-	18,890	18,890	750	-
Netherlands	-	-	9	-	-	237	237	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	9	-
Russia	-	-	-	-	400	3,506	3,906	-	-
Spain	-	-	1	-	-	-	-	25	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	390	-	390	47	10
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	-	184	0	834	264	1,098	568	0
Total	-	-	2,967	880	2,021	32,692	35,593	1,531	280
Persian Gulf¹	-	-	-	-	-	1,818	1,818	9	-

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-August 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	—	155	—	1,464	—	38,416	116,630	322	158	480
Algeria	—	—	—	—	—	2,913	2,913	—	12	12
Angola	—	—	—	—	—	—	949	4	—	4
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	16	16	—	0	0
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	507	2	—	2
Iraq	—	—	—	—	—	14,525	28,413	57	60	117
Kuwait	—	155	—	—	—	2,466	6,797	18	10	28
Libya	—	—	—	—	—	46	46	—	0	0
Nigeria	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	29	—	13,000	71,539	241	53	294
United Arab Emirates	—	—	—	1,435	—	5,450	5,450	—	22	22
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	276	2,199	59	7,143	—	129,636	459,688	1,358	533	1,892
Argentina	—	726	—	30	—	1,566	1,566	—	6	6
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	551	551	—	2	2
Bahrain	—	—	—	520	—	520	520	—	2	2
Belgium	—	—	—	25	—	796	796	—	3	3
Brazil	—	1,073	—	—	—	8,972	10,915	8	37	45
Brunei	—	—	—	—	—	287	287	—	1	1
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	—	—	1	14	—	5,794	141,840	560	24	584
Chad	—	—	—	—	—	—	—	—	—	—
China	12	—	—	—	—	12	12	—	0	0
Colombia	—	—	—	—	—	858	40,945	165	4	168
Denmark	—	—	—	—	—	100	100	—	0	0
Ecuador	—	—	—	—	—	3,283	3,283	—	14	14
Egypt	—	—	—	—	—	1,393	1,393	—	6	6
Estonia	—	—	—	—	—	49	49	—	0	0
Finland	—	—	—	—	—	427	427	—	2	2
France	—	—	—	18	—	1,398	1,398	—	6	6
Germany	—	139	—	23	—	500	500	—	2	2
Guatemala	—	—	—	—	—	—	589	2	—	2
India	—	—	—	6	—	3,043	3,043	—	13	13
Indonesia	—	—	—	919	—	919	919	—	4	4
Italy	—	—	—	63	—	2,658	2,658	—	11	11
Korea, South	—	—	—	2,648	—	6,400	6,400	—	26	26
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	1,137	1,137	—	5	5
Malaysia	140	—	—	—	—	2,258	2,258	—	9	9
Mexico	4	—	—	—	—	30,892	167,361	562	127	689
Netherlands	—	—	—	352	—	2,411	2,411	—	10	10
Norway	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	65	—	363	363	—	1	1
Portugal	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	2,345	—	2,920	2,920	—	12	12
Russia	—	—	—	—	—	36,063	36,063	—	148	148
Spain	2	202	—	—	—	960	960	—	4	4
Sweden	—	—	—	—	—	94	94	—	0	0
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	6,106	25	—	25
United Kingdom	52	25	—	—	—	1,297	7,816	27	5	32
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	66	34	58	115	—	11,715	14,008	9	49	60
Total	276	2,354	59	8,607	—	168,052	576,318	1,680	692	2,372
Persian Gulf⁴	—	155	—	4,329	—	38,881	116,146	318	160	478

-- = Not Applicable.

- = No Data Reported.

1 Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

2 Includes crude oil imported for storage in the Strategic Petroleum Reserve.

3 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

4 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-August 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
PAD District 4										
OPEC	1,830	-	-	262	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	1,830	-	-	262	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	66,777	2,887	-	83	-	20	20	-	452	452
Canada	66,777	2,887	-	83	-	15	15	-	452	452
Ecuador	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	5	5	-	0	0
Total	68,607	2,887	-	345	-	20	20	-	452	452
PAD District 5										
OPEC	91,603	-	-	8,749	-	378	378	551	786	1,337
Algeria	-	-	-	7,236	-	-	-	-	-	-
Angola	1,808	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	45,795	-	-	-	-	-	-	-	-	-
Kuwait	1,474	-	-	-	-	-	-	2	-	2
Libya	4,672	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	33,466	-	-	1,513	-	378	378	549	786	1,335
United Arab Emirates	4,388	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	192,516	10,409	-	7,219	-	5,579	5,579	738	6,704	7,442
Argentina	12,216	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	700	-	-	-	-	-	-	-	-	-
Brazil	29,595	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Canada	63,895	10,252	-	622	-	909	909	-	297	297
China	-	-	-	-	-	-	-	-	-	-
Colombia	15,391	-	-	199	-	-	-	-	-	-
Ecuador	32,293	-	-	605	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Indonesia	549	-	-	-	-	-	-	-	-	-
Japan	-	-	-	640	-	317	317	-	641	641
Korea, South	-	-	-	-	-	3,325	3,325	-	1,522	1,522
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	11,252	-	-	3,486	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	674	85	759
Oman	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	793	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	8	8	8	12	20
Singapore	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	172	172
Taiwan	-	-	-	-	-	-	-	-	751	751
United Kingdom	499	-	-	-	-	-	-	-	295	295
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	25,333	157	-	1,667	-	1,020	1,020	56	2,929	2,985
Total	284,119	10,823	-	15,968	-	5,957	5,957	1,289	7,490	8,779
Persian Gulf⁴	85,123	-	-	1,513	-	386	386	559	798	1,357

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-August 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
PAD District 4											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	7	61	-	-	1,469	-	3	-	1,472	-	3
Canada	7	61	-	-	1,469	-	3	-	1,472	-	3
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	-	-	0	-	0	-	0	-	0
Total	7	61	-	-	1,469	-	3	-	1,472	-	3
PAD District 5											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	945	625	4,137	12	4,694	1,260	1	190	6,145	18	17
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Brazil	945	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Canada	-	472	-	-	3,546	-	1	-	3,547	-	4
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	190	190	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	10	100	-	-	-	100	-	-
Korea, South	-	153	-	-	1,048	1,260	-	-	2,308	18	13
Malaysia	-	-	-	1	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	49	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	4,088	1	0	0	0	0	0	0	0
Total	945	625	4,137	12	4,694	1,260	1	190	6,145	18	17
Persian Gulf⁴	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-August 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
PAD District 4									
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	304	-	-	-	-	-	-	-
Canada	-	304	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	-	-	-	-	-
Total	-	304	-	-	-	-	-	-	-
PAD District 5									
OPEC	-	-	-	-	-	35	35	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	35	35	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	22,232	-	-	1,114	1,021	2,135	280	-
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Canada	-	311	-	-	417	738	1,155	-	-
China	-	933	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Japan	-	3,774	-	-	-	-	-	-	-
Korea, South	-	15,077	-	-	-	-	-	13	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	93	93	-	-
Netherlands	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Singapore	-	226	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Taiwan	-	975	-	-	-	-	-	267	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Other	-	936	-	-	697	190	887	0	-
Total	-	22,232	-	-	1,114	1,056	2,170	280	-
Persian Gulf⁴	-	-	-	-	-	35	35	-	-

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-August 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
PAD District 4										
OPEC	—	—	—	—	—	262	2,092	8	1	9
Algeria	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	8	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	—	627	—	8	5,924	72,701	275	24	299
Canada	—	—	627	—	8	5,919	72,696	275	24	299
Ecuador	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	—	0	5	5	0	0	0
Total	—	—	627	—	8	6,186	74,793	282	25	308
PAD District 5										
OPEC	—	—	—	—	—	10,913	102,516	377	45	422
Algeria	—	—	—	—	—	7,236	7,236	—	30	30
Angola	—	—	—	—	—	16	1,824	7	0	8
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	35	45,830	188	0	189
Kuwait	—	—	—	—	—	2	1,476	6	0	6
Libya	—	—	—	—	—	—	4,672	19	—	19
Nigeria	—	—	—	—	—	110	110	—	0	0
Saudi Arabia	—	—	—	—	—	3,226	36,692	138	13	151
United Arab Emirates	—	—	—	—	—	—	4,388	18	—	18
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	269	—	541	257	—	68,262	260,778	792	281	1,073
Argentina	—	—	—	—	—	—	12,216	50	—	50
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	700	3	—	3
Brazil	—	—	—	—	—	945	30,540	122	4	126
Brunei	—	—	—	—	—	—	—	—	—	—
Canada	—	—	398	35	—	18,002	81,897	263	74	337
China	95	—	—	—	—	1,028	1,028	—	4	4
Colombia	—	—	—	—	—	199	15,590	63	1	64
Ecuador	—	—	—	—	—	795	33,088	133	3	136
Finland	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	549	2	—	2
Japan	37	—	—	1	—	5,520	5,520	—	23	23
Korea, South	—	—	—	61	—	22,490	22,490	—	93	93
Malaysia	1	—	—	—	—	2	2	—	0	0
Mexico	—	—	—	—	—	3,579	14,831	46	15	61
Netherlands	—	—	—	—	—	808	808	—	3	3
Oman	—	—	—	—	—	—	—	—	—	—
Papua New Guinea	—	—	—	—	—	—	—	—	—	—
Peru	—	—	—	—	—	—	793	3	—	3
Qatar	—	—	—	160	—	188	188	—	1	1
Singapore	—	—	—	—	—	4,315	4,315	—	18	18
Sweden	—	—	—	—	—	172	172	—	1	1
Taiwan	136	—	—	—	—	2,129	2,129	—	9	9
United Kingdom	—	—	—	—	—	295	794	2	1	3
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Other	0	—	143	0	—	7,795	33,128	105	31	136
Total	269	—	541	257	—	79,175	363,294	1,169	326	1,495
Persian Gulf⁴	—	—	—	160	—	3,451	88,574	350	14	365

-- = Not Applicable.

- = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 49. Exports of Crude Oil and Petroleum Products by PAD District, August 2022
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	2,899	1,533	108,802	-	-	113,235	3,653
Hydrocarbon Gas Liquids	9,045	7,718	56,350	13	1,669	74,795	2,413
Natural Gas Liquids	9,045	7,718	56,350	13	1,669	74,795	2,413
Ethane	2,577	2,380	10,237	-	-	15,193	490
Propane	4,969	161	36,839	1	877	42,846	1,382
Normal Butane	1,422	139	8,971	-	764	11,296	364
Isobutane	-	4	215	-	3	222	7
Natural Gasoline	77	5,035	88	12	25	5,237	169
Other Liquids	164	4,080	5,982	23	920	11,168	360
Hydrogen/Biofuels/Other Hydrocarbons	139	1,277	673	23	552	2,665	86
Hydrogen	-	-	-	-	-	-	-
Biofuels	139	1,277	673	23	552	2,665	86
Fuel Ethanol	132	931	556	0	223	1,842	59
Biodiesel	7	346	117	23	329	823	27
Renewable Diesel Fuel	NA	NA	NA	NA	NA	NA	NA
Other Biofuels ²	NA	NA	NA	NA	NA	NA	NA
Other Hydrocarbons	-	-	-	-	-	-	-
Unfinished Oils	21	2,707	3,610	-	189	6,527	211
Naphthas and Lighter	8	2,698	3,029	-	176	5,910	191
Kerosene and Light Gas Oils	14	9	581	-	13	617	20
Heavy Gas Oils	-	-	-	-	-	-	-
Residuum	-	-	-	-	-	-	-
Motor Gasoline Blend.Comp. (MGBC)	3	95	1,699	-	178	1,976	64
Reformulated	0	-	1	-	-	2	0
Conventional	3	95	1,698	-	178	1,975	64
Aviation Gasoline Blend. Comp.	-	-	-	-	-	-	-
Finished Petroleum Products	1,938	1,324	95,023	18	7,127	105,430	3,401
Finished Motor Gasoline	38	406	28,786	0	626	29,857	963
Reformulated	-	-	-	-	-	-	-
Conventional	38	406	28,786	0	626	29,857	963
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	16	34	5,713	0	765	6,529	211
Kerosene	5	0	232	-	199	436	14
Distillate Fuel Oil	152	187	41,769	-	2,028	44,136	1,424
15 ppm sulfur and under	53	0	36,037	-	1,962	38,053	1,228
Greater than 15 ppm to 500 ppm sulfur	18	28	3,183	-	6	3,236	104
Greater than 500 ppm sulfur	80	158	2,549	-	60	2,847	92
Residual Fuel Oil	506	8	2,656	-	332	3,502	113
Naphtha for Petro. Feed. Use	-	-	-	-	-	-	-
Other Oils for Petro. Feed. Use	-	-	-	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	208	195	1,627	14	152	2,196	71
Waxes	82	42	24	0	5	153	5
Petroleum Coke	802	364	13,682	0	2,999	17,847	576
Asphalt and Road Oil	111	87	497	3	21	718	23
Miscellaneous Products	18	1	37	-	0	56	2
Total	14,045	14,656	266,157	54	9,715	304,627	9,827

-- = Not Applicable.

- = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

² Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 50. Year-to-Date Exports of Crude Oil and Petroleum Products by PAD District, January-August 2022
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	13,302	15,388	810,996	0	1,548	841,234	3,462
Hydrocarbon Gas Liquids	65,215	58,427	441,723	368	12,919	578,653	2,381
Natural Gas Liquids	65,215	58,427	441,723	368	12,919	578,653	2,381
Ethane	17,807	16,484	75,097	1	5	109,393	450
Propane	34,865	1,158	291,769	8	6,117	333,918	1,374
Normal Butane	12,010	913	72,487	23	6,593	92,025	379
Isobutane	5	22	1,263	-	10	1,300	5
Natural Gasoline	528	39,851	1,107	336	194	42,016	173
Other Liquids	2,095	26,522	87,391	95	6,441	122,544	504
Hydrogen/Biofuels/Other Hydrocarbons	1,456	7,590	15,991	92	4,209	29,338	121
Hydrogen	-	-	-	-	-	-	-
Biofuels	1,456	7,590	15,991	92	4,209	29,338	121
Fuel Ethanol	1,160	5,873	15,250	2	1,817	24,102	99
Biodiesel	296	1,717	742	90	2,392	5,236	22
Renewable Diesel Fuel	NA	NA	NA	NA	NA	NA	NA
Other Biofuels ²	NA	NA	NA	NA	NA	NA	NA
Other Hydrocarbons	-	-	-	-	-	-	-
Unfinished Oils	507	17,634	58,051	2	1,087	77,281	318
Naphthas and Lighter	411	17,531	55,137	1	971	74,051	305
Kerosene and Light Gas Oils	96	103	2,913	1	116	3,230	13
Heavy Gas Oils	-	-	-	-	-	-	-
Residuum	-	-	-	-	-	-	-
Motor Gasoline Blend.Comp. (MGBC)	131	1,298	13,349	2	1,145	15,925	66
Reformulated	8	-	8	-	11	26	0
Conventional	123	1,298	13,341	2	1,134	15,898	65
Aviation Gasoline Blend. Comp.	-	-	-	-	-	-	-
Finished Petroleum Products	17,901	10,018	663,773	122	58,522	750,336	3,088
Finished Motor Gasoline	358	3,217	196,497	7	6,964	207,043	852
Reformulated	-	-	-	-	-	-	-
Conventional	358	3,217	196,497	7	6,964	207,043	852
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	178	168	38,340	1	5,116	43,804	180
Kerosene	21	5	1,553	-	207	1,787	7
Distillate Fuel Oil	6,682	1,248	282,113	0	15,997	306,041	1,259
15 ppm sulfur and under	5,161	5	241,714	0	12,422	259,302	1,067
Greater than 15 ppm to 500 ppm sulfur	1,073	323	20,424	-	1,525	23,346	96
Greater than 500 ppm sulfur	448	920	19,975	-	2,050	23,393	96
Residual Fuel Oil	2,058	9	19,834	-	3,716	25,618	105
Naphtha for Petro. Feed. Use	-	-	-	-	-	-	-
Other Oils for Petro. Feed. Use	-	-	-	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	2,009	1,579	19,071	96	2,054	24,809	102
Waxes	658	296	184	1	31	1,170	5
Petroleum Coke	5,147	2,967	103,370	0	24,202	135,687	558
Asphalt and Road Oil	641	516	2,529	16	233	3,936	16
Miscellaneous Products	148	11	281	0	2	442	2
Total	98,513	110,355	2,003,883	585	79,431	2,292,767	9,435

-- = Not Applicable.

- = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

² Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, August 2022
(Thousand Barrels)

Destination	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina	—	—	—	161	—	—	—	—	—	—
Australia	579	577	—	2	—	0	0	—	—	—
Bahamas	—	31	—	—	—	425	425	—	220	220
Bahrain	—	—	—	—	—	0	0	0	—	0
Belgium	—	756	—	15	—	—	—	—	—	—
Belize	—	25	—	—	—	40	40	—	—	—
Brazil	1,030	1,160	—	557	—	1,907	1,907	—	—	—
Canada	10,546	7,882	—	2,717	—	795	795	—	1,047	1,047
Cayman Islands	—	5	—	—	—	20	20	—	0	0
Chile	720	1,547	—	270	—	950	950	—	—	—
China	8,752	11,684	—	2	—	—	—	—	—	—
Colombia	1,610	50	—	972	—	1,899	1,899	—	—	—
Costa Rica	—	256	—	1	—	600	600	—	0	0
Denmark	621	—	—	184	—	—	—	—	—	—
Dominican Republic	481	1,801	—	0	—	741	741	1	—	1
Ecuador	—	1,061	—	185	—	598	598	—	—	—
Egypt	—	1,028	—	—	—	—	—	—	—	—
El Salvador	—	154	—	—	—	583	583	—	—	—
Finland	750	621	—	—	—	—	—	—	—	—
France	3,060	393	—	15	—	—	—	—	—	—
Germany	4,571	1	—	3	—	—	—	—	—	—
Ghana	—	—	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	—	—	—	—	—
Greece	—	0	—	—	—	—	—	—	0	0
Guatemala	—	0	—	—	—	1,397	1,397	0	0	0
Honduras	—	396	—	0	—	525	525	—	—	—
Hong Kong	—	—	—	0	—	—	—	—	—	—
India	3,649	2,371	—	7	—	—	—	—	—	—
Indonesia	722	2,340	—	0	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—	—	—
Israel	—	103	—	0	—	—	—	—	—	—
Italy	4,416	—	—	—	—	—	—	—	—	—
Jamaica	—	41	—	—	—	297	297	0	0	0
Japan	2,890	14,799	—	494	—	0	0	—	—	—
Korea, South	12,511	3,688	—	0	—	0	0	—	0	0
Lebanon	—	—	—	—	—	—	—	—	—	—
Mexico	—	6,642	—	642	—	16,546	16,546	0	706	706
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	1,283	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—	—	—
Netherlands	10,771	2,106	—	37	—	—	—	—	—	—
New Zealand	—	—	—	—	—	—	—	—	—	—
Nicaragua	281	—	—	—	—	105	105	—	—	—
Nigeria	—	718	—	—	—	308	308	—	—	—
Norway	—	1,649	—	240	—	—	—	—	—	—
Pakistan	—	—	—	—	—	0	0	—	0	0
Panama	—	80	—	—	—	530	530	—	—	—
Peru	1,609	331	—	0	—	837	837	—	—	—
Philippines	—	—	—	0	—	—	—	—	—	—
Portugal	—	420	—	—	—	—	—	—	—	—
Puerto Rico	—	8	—	—	—	1	1	—	0	0
Romania	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	2	—	—	—	—	—	—
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—	—	—
Singapore	8,954	1,558	—	1	—	—	—	—	—	—
South Africa	—	1,026	—	7	—	—	—	—	—	—
Spain	4,408	1,435	—	—	—	—	—	—	—	—
Switzerland	807	—	—	—	—	—	—	—	0	0
Taiwan	7,636	—	—	2	—	—	—	—	—	—
Thailand	1,225	—	—	1	—	—	—	—	—	—
Trinidad and Tobago	—	1	—	0	—	0	0	—	—	—
Turkey	—	967	—	0	—	—	—	—	—	—
United Arab Emirates	—	0	—	2	—	—	—	—	—	—
United Kingdom	13,990	1,076	—	—	—	300	300	—	0	0
Venezuela	—	0	—	0	—	—	—	—	—	—
Other	6,646	2,725	—	8	—	453	453	1	2	2
Total	113,235	74,795	—	6,527	—	29,857	29,857	2	1,975	1,976

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, August 2022
(Thousand Barrels) — Continued

Destination	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel ²	Other Biofuels ^{2,3}	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
Argentina	0	—	NA	NA	2,935	—	315	—	3,250	0	—
Australia	0	—	NA	NA	—	—	—	—	—	—	—
Bahamas	1	—	NA	NA	556	74	350	—	981	0	—
Bahrain	0	—	NA	NA	—	—	—	—	—	—	—
Belgium	0	—	NA	NA	346	—	80	—	426	—	—
Belize	—	—	NA	NA	—	—	—	—	—	—	—
Brazil	0	—	NA	NA	5,327	—	273	—	5,600	220	—
Canada	1,262	576	NA	NA	0	290	217	—	507	201	—
Cayman Islands	—	—	NA	NA	83	—	—	—	83	—	—
Chile	0	—	NA	NA	3,360	—	—	—	3,360	—	—
China	0	—	NA	NA	299	—	—	—	299	—	—
Colombia	0	—	NA	NA	331	—	—	—	331	7	—
Costa Rica	0	—	NA	NA	715	—	—	—	715	0	—
Denmark	—	—	NA	NA	—	—	—	—	—	—	—
Dominican Republic	2	—	NA	NA	276	—	438	—	713	0	—
Ecuador	—	—	NA	NA	695	285	—	—	980	—	—
Egypt	6	—	NA	NA	—	—	—	—	—	—	—
El Salvador	—	—	NA	NA	147	140	120	—	407	0	—
Finland	52	—	NA	NA	—	—	—	—	—	—	—
France	—	—	NA	NA	—	—	—	—	—	0	—
Germany	0	2	NA	NA	0	—	—	—	0	—	—
Ghana	—	—	NA	NA	—	—	—	—	—	—	—
Gibraltar	—	—	NA	NA	—	—	—	—	—	—	—
Greece	33	—	NA	NA	—	—	—	—	—	—	—
Guatemala	0	—	NA	NA	972	554	—	—	1,525	1	—
Honduras	—	—	NA	NA	344	198	123	—	665	0	—
Hong Kong	0	—	NA	NA	—	—	—	—	—	—	—
India	0	—	NA	NA	1	—	—	—	1	—	—
Indonesia	0	—	NA	NA	—	—	—	—	—	—	—
Ireland	0	—	NA	NA	—	—	—	—	—	—	—
Israel	0	—	NA	NA	—	—	—	—	—	—	—
Italy	0	—	NA	NA	—	—	—	—	—	—	—
Jamaica	1	—	NA	NA	142	255	48	—	445	—	—
Japan	0	—	NA	NA	—	—	—	—	—	—	—
Korea, South	158	0	NA	NA	3	—	—	—	3	—	—
Lebanon	—	—	NA	NA	—	—	—	—	—	—	—
Mexico	121	0	NA	NA	11,477	100	2	—	11,579	3	—
Montenegro	—	—	NA	NA	—	—	—	—	—	—	—
Morocco	—	—	NA	NA	—	—	—	—	—	—	—
Mozambique	—	—	NA	NA	—	—	—	—	—	—	—
Netherlands	57	—	NA	NA	1,714	—	—	—	1,714	—	—
New Zealand	—	—	NA	NA	—	—	—	—	—	—	—
Nicaragua	—	—	NA	NA	190	—	128	—	318	0	—
Nigeria	14	—	NA	NA	—	—	—	—	—	—	—
Norway	—	—	NA	NA	—	—	—	—	—	—	—
Pakistan	—	0	NA	NA	—	—	—	—	—	—	—
Panama	0	—	NA	NA	2,144	—	330	—	2,474	0	—
Peru	46	46	NA	NA	3,235	584	—	—	3,819	—	—
Philippines	—	—	NA	NA	—	—	—	—	—	—	—
Portugal	—	—	NA	NA	—	—	—	—	—	—	—
Puerto Rico	4	—	NA	NA	0	—	—	—	0	—	—
Romania	—	—	NA	NA	1	—	—	—	1	—	—
Saudi Arabia	61	—	NA	NA	1	—	—	—	1	—	—
Serbia (Excludes Kosovo) ..	—	—	NA	NA	—	—	—	—	—	—	—
Singapore	0	198	NA	NA	—	165	—	—	165	0	—
South Africa	—	—	NA	NA	—	—	—	—	—	—	—
Spain	—	—	NA	NA	—	—	—	—	—	0	—
Switzerland	2	—	NA	NA	—	—	—	—	—	—	—
Taiwan	1	1	NA	NA	1	—	—	—	1	2	—
Thailand	0	—	NA	NA	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	NA	NA	115	—	—	—	115	—	—
Turkey	—	—	NA	NA	2	—	—	—	2	—	—
United Arab Emirates	—	0	NA	NA	—	—	—	—	—	0	—
United Kingdom	0	0	NA	NA	844	—	—	—	844	1	—
Venezuela	—	—	NA	NA	0	—	—	—	0	—	—
Other	21	—	NA	NA	1,797	591	423	—	2,812	1	—
Total	1,842	823	NA	NA	38,053	3,236	2,847	—	44,136	436	—

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, August 2022
(Thousand Barrels) — Continued

Destination	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks		Waxes	Petroleum Coke
					Naphtha	Other Oils		
Argentina	—	38	—	0	—	—	1	92
Australia	—	—	—	—	—	—	0	117
Bahamas	—	346	—	300	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	394
Belize	—	—	—	—	—	—	0	—
Brazil	—	—	—	—	—	—	1	1,518
Canada	—	991	—	743	—	—	115	1,136
Cayman Islands	—	8	—	0	—	—	—	—
Chile	—	571	—	0	—	—	0	—
China	—	—	—	2	—	—	2	2,113
Colombia	—	—	—	—	—	—	0	—
Costa Rica	—	185	—	—	—	—	0	—
Denmark	—	—	—	—	—	—	—	—
Dominican Republic	—	210	—	46	—	—	0	358
Ecuador	—	—	—	—	—	—	0	—
Egypt	—	—	—	—	—	—	—	275
El Salvador	—	40	—	—	—	—	0	0
Finland	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	0	17
Germany	—	—	—	—	—	—	2	0
Ghana	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	—	—	—
Greece	—	—	—	—	—	—	—	976
Guatemala	—	27	—	—	—	—	—	536
Honduras	—	42	—	—	—	—	0	275
Hong Kong	—	—	—	—	—	—	0	—
India	—	—	—	0	—	—	2	1,788
Indonesia	—	—	—	—	—	—	0	—
Ireland	—	—	—	—	—	—	—	0
Israel	—	—	—	—	—	—	0	318
Italy	—	—	—	—	—	—	0	—
Jamaica	—	144	—	—	—	—	—	1
Japan	—	—	—	0	—	—	1	2,406
Korea, South	—	—	—	550	—	—	1	0
Lebanon	—	—	—	—	—	—	—	—
Mexico	—	2,305	—	120	—	—	22	1,402
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	—	—	277
Mozambique	—	—	—	—	—	—	—	107
Netherlands	—	325	—	—	—	—	2	53
New Zealand	—	—	—	—	—	—	—	44
Nicaragua	—	25	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	130
Pakistan	—	—	—	—	—	—	0	275
Panama	—	582	—	1,365	—	—	0	—
Peru	—	189	—	—	—	—	0	0
Philippines	—	—	—	—	—	—	0	—
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	—	343	—	—	—	—	0	—
Romania	—	—	—	—	—	—	0	—
Saudi Arabia	—	—	—	—	—	—	0	1
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—
Singapore	—	135	—	—	—	—	0	—
South Africa	—	—	—	0	—	—	0	85
Spain	—	—	—	—	—	—	1	969
Switzerland	—	—	—	—	—	—	—	—
Taiwan	—	—	—	0	—	—	0	0
Thailand	—	—	—	—	—	—	0	336
Trinidad and Tobago	—	0	—	—	—	—	—	—
Turkey	—	—	—	1	—	—	—	916
United Arab Emirates	—	—	—	—	—	—	0	0
United Kingdom	—	—	—	—	—	—	0	55
Venezuela	—	—	—	—	—	—	—	—
Other	—	23	—	375	—	—	3	877
Total	—	6,529	—	3,502	—	—	153	17,847

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, August 2022
(Thousand Barrels) — Continued

Destination	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
						Crude Oil	Products	Total
Argentina	—	5	—	3,547	3,547	—	114	114
Australia	0	5	—	702	1,281	19	23	41
Bahamas	3	7	0	2,314	2,314	—	75	75
Bahrain	—	—	—	1	1	—	0	0
Belgium	0	172	0	1,764	1,764	—	57	57
Belize	—	2	—	68	68	—	2	2
Brazil	—	278	1	11,241	12,271	33	363	396
Canada	196	287	14	18,467	29,013	340	596	936
Cayman Islands	0	1	—	118	118	—	4	4
Chile	131	58	—	6,888	7,608	23	222	245
China	1	9	1	14,113	22,865	282	455	738
Colombia	0	110	0	3,371	4,981	52	109	161
Costa Rica	—	18	0	1,776	1,776	—	57	57
Denmark	—	0	—	184	805	20	6	26
Dominican Republic	46	64	—	3,983	4,464	16	128	144
Ecuador	0	100	0	2,924	2,924	—	94	94
Egypt	—	0	—	1,310	1,310	—	42	42
El Salvador	—	35	0	1,219	1,219	—	39	39
Finland	—	1	—	674	1,424	24	22	46
France	—	10	—	435	3,495	99	14	113
Germany	4	1	—	12	4,583	147	0	148
Ghana	—	0	—	0	0	—	0	0
Gibraltar	—	—	—	—	—	—	—	—
Greece	—	0	—	1,010	1,010	—	33	33
Guatemala	0	16	—	3,502	3,502	—	113	113
Honduras	42	16	—	1,960	1,960	—	63	63
Hong Kong	—	1	0	1	1	—	0	0
India	0	46	0	4,215	7,864	118	136	254
Indonesia	0	1	—	2,342	3,064	23	76	99
Ireland	—	—	—	0	0	—	0	0
Israel	—	3	0	425	425	—	14	14
Italy	—	0	0	1	4,417	142	0	142
Jamaica	—	5	0	934	934	—	30	30
Japan	0	6	5	17,711	20,601	93	571	665
Korea, South	—	5	0	4,406	16,917	404	142	546
Lebanon	—	0	—	0	0	—	0	0
Mexico	192	660	29	40,968	40,968	—	1,322	1,322
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	1,560	1,560	—	50	50
Mozambique	—	0	—	108	108	—	3	3
Netherlands	1	3	1	4,299	15,070	347	139	486
New Zealand	98	1	—	143	143	—	5	5
Nicaragua	—	6	—	453	734	9	15	24
Nigeria	—	1	—	1,040	1,040	—	34	34
Norway	—	0	—	2,020	2,020	—	65	65
Pakistan	—	0	—	275	275	—	9	9
Panama	—	45	—	5,076	5,076	—	164	164
Peru	0	52	0	5,321	6,930	52	172	224
Philippines	—	4	0	5	5	—	0	0
Portugal	—	—	—	420	420	—	14	14
Puerto Rico	1	9	—	366	366	—	12	12
Romania	—	0	—	1	1	—	0	0
Saudi Arabia	—	5	—	70	70	—	2	2
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—
Singapore	—	4	0	2,061	11,015	289	66	355
South Africa	—	1	—	1,119	1,119	—	36	36
Spain	0	1	—	2,405	6,814	142	78	220
Switzerland	—	34	—	36	843	26	1	27
Taiwan	0	14	0	21	7,657	246	1	247
Thailand	0	7	—	344	1,569	40	11	51
Trinidad and Tobago	—	5	0	121	121	—	4	4
Turkey	0	2	—	1,887	1,887	—	61	61
United Arab Emirates	0	16	—	20	20	—	1	1
United Kingdom	0	2	—	2,278	16,268	451	73	525
Venezuela	—	8	—	8	8	—	0	0
Other	3	54	5	7,349	13,994	216	236	449
Total	718	2,196	56	191,392	304,627	3,653	6,174	9,827

-- = Not Applicable.

- = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

² EIA is unable to report exports of renewable diesel fuel and other biofuels because of limitations of product classification information available in export data from the U.S. Census Bureau.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-August 2022
(Thousand Barrels)

Destination	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina	—	266	—	1,642	—	755	755	—	0	0
Australia	6,456	2,867	—	20	—	0	0	2	0	2
Bahamas	460	284	—	216	—	3,110	3,110	—	719	719
Bahrain	—	—	—	0	—	1	1	0	—	0
Belgium	965	13,780	—	2,502	—	0	0	—	0	0
Belize	—	159	—	—	—	140	140	—	—	—
Brazil	18,280	12,398	—	16,495	—	8,649	8,649	—	—	—
Canada	80,196	59,726	—	17,690	—	5,919	5,919	—	7,397	7,397
Cayman Islands	—	30	—	0	—	182	182	0	1	1
Chile	840	10,785	—	642	—	9,990	9,990	1	158	158
China	47,615	71,968	—	25	—	0	0	—	0	0
Colombia	7,222	661	—	8,358	—	8,989	8,989	—	0	0
Costa Rica	—	1,689	—	83	—	5,112	5,112	—	0	0
Denmark	11,000	—	—	184	—	0	0	0	—	0
Dominican Republic	4,871	10,045	—	12	—	3,259	3,259	1	201	202
Ecuador	—	8,625	—	2,315	—	4,309	4,309	—	9	9
Egypt	—	9,663	—	0	—	—	—	—	—	—
El Salvador	—	2,207	—	1	—	4,372	4,372	—	—	—
Finland	750	5,069	—	517	—	—	—	—	—	—
France	42,344	5,003	—	505	—	1	1	—	0	0
Germany	26,368	216	—	22	—	0	0	0	—	0
Ghana	—	1,067	—	0	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	—	—	—	—	—
Greece	—	0	—	—	—	1	1	—	0	0
Guatemala	—	2,303	—	27	—	10,055	10,055	0	1	1
Honduras	—	4,234	—	22	—	3,919	3,919	—	0	0
Hong Kong	—	—	—	0	—	0	0	—	—	—
India	65,330	29,568	—	31	—	0	0	0	0	0
Indonesia	1,352	19,504	—	3	—	—	—	—	—	—
Ireland	6,337	—	—	—	—	1	1	—	—	—
Israel	—	104	—	0	—	0	0	—	—	—
Italy	44,208	737	—	22	—	—	—	—	—	—
Jamaica	—	239	—	0	—	1,686	1,686	0	0	1
Japan	7,955	93,920	—	2,349	—	2	2	9	—	9
Korea, South	79,742	35,441	—	530	—	510	510	3	4	7
Lebanon	—	—	—	—	—	—	—	—	—	—
Mexico	—	49,464	—	4,224	—	117,952	117,952	4	6,150	6,154
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	11,238	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—	—	—
Netherlands	81,621	20,241	—	10,363	—	4	4	—	—	—
New Zealand	—	2	—	0	—	—	—	—	—	—
Nicaragua	1,703	50	—	—	—	266	266	—	—	—
Nigeria	—	3,019	—	0	—	1,791	1,791	—	—	—
Norway	2,885	8,589	—	740	—	—	—	—	—	—
Pakistan	—	—	—	13	—	1	1	—	0	0
Panama	1,122	1,574	—	3	—	4,882	4,882	1	304	305
Peru	4,228	2,700	—	519	—	6,945	6,945	—	610	610
Philippines	—	0	—	1	—	—	—	—	—	—
Portugal	3,590	5,566	—	—	—	—	—	—	—	—
Puerto Rico	—	55	—	14	—	197	197	0	1	1
Romania	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	1	—	2,304	—	2	2	—	0	0
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—	—	—
Singapore	77,868	15,912	—	828	—	3	3	—	0	0
South Africa	—	3,451	—	11	—	321	321	0	—	0
Spain	42,931	7,927	—	7	—	—	—	—	—	—
Switzerland	1,535	2,766	—	843	—	—	—	—	310	310
Taiwan	46,136	577	—	2,165	—	3	3	—	—	—
Thailand	15,444	0	—	12	—	—	—	—	—	—
Trinidad and Tobago	—	7	—	2	—	277	277	—	—	—
Turkey	—	10,773	—	0	—	0	0	—	0	0
United Arab Emirates	—	0	—	3	—	7	7	0	0	0
United Kingdom	80,402	11,658	—	421	—	505	505	1	1	1
Venezuela	—	3	—	5	—	4	4	1	0	1
Other	29,478	20,522	—	590	—	2,921	2,921	3	32	37
Total	841,234	578,653	—	77,281	—	207,043	207,043	26	15,898	15,925

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-August 2022
(Thousand Barrels) — Continued

Destination	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel ²	Other Biofuels ^{2,3}	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
Argentina	1	0	NA	NA	13,593	535	2,138	—	16,266	0	—
Australia	1	0	NA	NA	3	—	2	—	5	—	—
Bahamas	2	0	NA	NA	3,801	281	2,061	—	6,143	0	—
Bahrain	0	—	NA	NA	—	—	—	—	—	0	—
Belgium	1	0	NA	NA	1,419	—	198	—	1,617	—	—
Belize	—	—	NA	NA	82	145	—	—	227	—	—
Brazil	1,416	—	NA	NA	33,744	1,559	1,585	—	36,888	759	—
Canada	7,611	2,865	NA	NA	9	1,863	1,303	—	3,176	356	—
Cayman Islands	0	—	NA	NA	894	185	—	—	1,079	—	—
Chile	172	1	NA	NA	35,144	593	300	—	36,037	0	—
China	6	0	NA	NA	460	150	1	—	611	0	—
Colombia	216	—	NA	NA	8,742	136	—	—	8,878	17	—
Costa Rica	3	—	NA	NA	5,386	21	—	—	5,407	1	—
Denmark	—	—	NA	NA	464	—	—	—	464	—	—
Dominican Republic	8	—	NA	NA	2,477	35	2,291	—	4,803	101	—
Ecuador	0	—	NA	NA	8,229	856	406	—	9,491	2	—
Egypt	57	—	NA	NA	—	—	—	—	—	—	—
El Salvador	—	—	NA	NA	1,554	672	725	—	2,951	0	—
Finland	52	—	NA	NA	—	—	—	—	—	—	—
France	62	—	NA	NA	898	213	—	—	1,112	0	—
Germany	2	18	NA	NA	1	—	—	—	1	—	—
Ghana	—	—	NA	NA	625	—	—	—	625	—	—
Gibraltar	31	—	NA	NA	280	—	—	—	280	—	—
Greece	164	—	NA	NA	—	—	—	—	—	—	—
Guatemala	0	—	NA	NA	5,700	2,346	1,213	—	9,259	1	—
Honduras	0	—	NA	NA	2,633	2,617	490	—	5,740	151	—
Hong Kong	0	—	NA	NA	—	—	—	—	—	—	—
India	1,935	0	NA	NA	266	0	—	—	267	—	—
Indonesia	0	1	NA	NA	4	—	—	—	4	—	—
Ireland	0	—	NA	NA	—	—	—	—	—	—	—
Israel	4	—	NA	NA	0	—	—	—	0	0	—
Italy	0	0	NA	NA	—	—	—	—	—	—	—
Jamaica	306	—	NA	NA	932	561	681	—	2,174	0	—
Japan	3	—	NA	NA	0	—	—	—	0	1	—
Korea, South	3,040	0	NA	NA	11	165	—	—	176	0	—
Lebanon	—	—	NA	NA	0	—	—	—	0	—	—
Mexico	1,220	3	NA	NA	70,324	1,037	544	—	71,905	15	—
Montenegro	—	—	NA	NA	—	—	—	—	—	—	—
Morocco	0	—	NA	NA	1	31	—	—	32	—	—
Mozambique	—	—	NA	NA	—	—	—	—	—	—	—
Netherlands	1,790	205	NA	NA	4,219	594	1,294	—	6,108	0	—
New Zealand	—	—	NA	NA	0	—	—	—	0	0	—
Nicaragua	0	—	NA	NA	514	549	679	—	1,742	361	—
Nigeria	682	—	NA	NA	3	121	—	—	124	2	—
Norway	—	45	NA	NA	317	—	—	—	317	—	—
Pakistan	—	0	NA	NA	—	—	—	—	—	—	—
Panama	0	—	NA	NA	14,472	1,732	1,568	—	17,772	7	—
Peru	858	381	NA	NA	21,320	1,138	50	—	22,508	0	—
Philippines	470	—	NA	NA	—	—	—	—	—	0	—
Portugal	—	—	NA	NA	—	—	—	—	—	—	—
Puerto Rico	36	—	NA	NA	668	150	0	—	818	1	—
Romania	—	—	NA	NA	1	—	—	—	1	—	—
Saudi Arabia	383	0	NA	NA	4	—	—	—	4	3	—
Serbia (Excludes Kosovo) ..	—	—	NA	NA	—	—	—	—	—	—	—
Singapore	1,193	1,717	NA	NA	1,931	165	580	—	2,676	0	—
South Africa	0	—	NA	NA	1	—	—	—	1	—	—
Spain	40	—	NA	NA	750	—	—	—	750	0	—
Switzerland	39	—	NA	NA	—	275	—	—	275	—	—
Taiwan	3	1	NA	NA	2	—	—	—	2	2	—
Thailand	0	—	NA	NA	0	—	—	—	0	—	—
Trinidad and Tobago	2	—	NA	NA	1,774	—	2,200	—	3,974	—	—
Turkey	24	—	NA	NA	303	—	—	—	303	—	—
United Arab Emirates	346	0	NA	NA	1	—	—	—	1	2	—
United Kingdom	1,274	0	NA	NA	6,021	600	—	—	6,621	2	—
Venezuela	0	—	NA	NA	3	—	—	—	3	—	—
Other	649	0	NA	NA	9,322	4,021	3,084	—	16,423	3	—
Total	24,102	5,236	NA	NA	259,302	23,346	23,393	—	306,041	1,787	—

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-August 2022
(Thousand Barrels) — Continued

Destination	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks		Waxes	Petroleum Coke
					Naphtha	Other Oils		
Argentina	—	182	—	30	—	—	3	452
Australia	—	0	—	0	—	—	9	1,675
Bahamas	—	984	—	4,115	—	—	—	—
Bahrain	—	—	—	—	—	—	0	—
Belgium	—	—	—	434	—	—	0	839
Belize	—	47	—	—	—	—	0	—
Brazil	—	1,085	—	0	—	—	6	13,497
Canada	—	6,089	—	2,912	—	—	862	4,948
Cayman Islands	—	434	—	0	—	—	—	—
Chile	—	3,894	—	603	—	—	3	463
China	—	0	—	20	—	—	27	22,557
Colombia	—	553	—	201	—	—	2	1
Costa Rica	—	1,359	—	70	—	—	1	547
Denmark	—	—	—	—	—	—	0	419
Dominican Republic	—	1,911	—	707	—	—	5	1,258
Ecuador	—	9	—	2	—	—	0	856
Egypt	—	—	—	—	—	—	—	2,078
El Salvador	—	367	—	0	—	—	1	520
Finland	—	—	—	—	—	—	0	278
France	—	—	—	0	—	—	1	873
Germany	—	—	—	2	—	—	12	359
Ghana	—	—	—	—	—	—	—	46
Gibraltar	—	—	—	137	—	—	—	—
Greece	—	—	—	0	—	—	—	3,334
Guatemala	—	399	—	0	—	—	1	2,756
Honduras	—	519	—	0	—	—	0	1,705
Hong Kong	—	—	—	—	—	—	1	—
India	—	0	—	9	—	—	18	12,742
Indonesia	—	—	—	—	—	—	0	0
Ireland	—	—	—	—	—	—	0	589
Israel	—	979	—	0	—	—	0	903
Italy	—	—	—	—	—	—	1	4,517
Jamaica	—	815	—	—	—	—	0	1
Japan	—	0	—	2	—	—	5	12,701
Korea, South	—	0	—	1,841	—	—	3	183
Lebanon	—	0	—	0	—	—	—	237
Mexico	—	14,560	—	2,006	—	—	141	13,313
Montenegro	—	—	—	—	—	—	—	110
Morocco	—	—	—	—	—	—	—	3,777
Mozambique	—	—	—	—	—	—	—	646
Netherlands	—	425	—	585	—	—	32	2,966
New Zealand	—	—	—	—	—	—	0	220
Nicaragua	—	146	—	—	—	—	0	66
Nigeria	—	0	—	—	—	—	0	187
Norway	—	—	—	—	—	—	—	764
Pakistan	—	—	—	—	—	—	0	275
Panama	—	3,514	—	5,754	—	—	0	264
Peru	—	1,816	—	20	—	—	1	181
Philippines	—	—	—	—	—	—	1	809
Portugal	—	—	—	—	—	—	0	875
Puerto Rico	—	619	—	1	—	—	0	—
Romania	—	—	—	—	—	—	0	281
Saudi Arabia	—	3	—	149	—	—	1	95
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—
Singapore	—	135	—	1,583	—	—	0	303
South Africa	—	—	—	25	—	—	0	435
Spain	—	—	—	75	—	—	21	3,700
Switzerland	—	—	—	—	—	—	0	—
Taiwan	—	0	—	0	—	—	1	0
Thailand	—	—	—	0	—	—	1	719
Trinidad and Tobago	—	781	—	0	—	—	0	1
Turkey	—	—	—	2	—	—	1	6,911
United Arab Emirates	—	0	—	6	—	—	0	581
United Kingdom	—	185	—	1	—	—	1	823
Venezuela	—	0	—	—	—	—	0	—
Other	—	1,994	—	4,326	—	—	8	6,051
Total	—	43,804	—	25,618	—	—	1,170	135,687

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-August 2022
(Thousand Barrels) — Continued

Destination	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
						Crude Oil	Products	Total
Argentina	209	303	0	20,108	20,108	—	83	83
Australia	3	52	1	4,635	11,091	27	19	46
Bahamas	15	22	3	15,616	16,076	2	64	66
Bahrain	—	1	—	2	2	—	0	0
Belgium	1	3,090	7	22,271	23,236	4	92	96
Belize	0	9	—	583	583	—	2	2
Brazil	1	2,415	7	93,614	111,894	75	385	460
Canada	1,120	2,525	63	123,260	203,457	330	507	837
Cayman Islands	6	8	0	1,740	1,740	—	7	7
Chile	403	712	0	63,863	64,703	3	263	266
China	7	87	7	95,316	142,931	196	392	588
Colombia	2	2,468	3	30,349	37,571	30	125	155
Costa Rica	270	125	0	14,667	14,667	—	60	60
Denmark	—	0	—	1,066	12,067	45	4	50
Dominican Republic	188	251	1	22,749	27,620	20	94	114
Ecuador	1	536	17	26,172	26,172	—	108	108
Egypt	—	4	—	11,802	11,802	—	49	49
El Salvador	0	195	0	10,615	10,615	—	44	44
Finland	—	6	—	5,923	6,673	3	24	27
France	—	568	0	8,124	50,469	174	33	208
Germany	23	20	3	677	27,045	109	3	111
Ghana	—	3	—	1,741	1,741	—	7	7
Gibraltar	—	—	—	448	448	—	2	2
Greece	—	1	—	3,500	3,500	—	14	14
Guatemala	0	167	—	24,970	24,970	—	103	103
Honduras	127	108	0	16,526	16,526	—	68	68
Hong Kong	—	8	0	10	10	—	0	0
India	2	716	3	45,290	110,619	269	186	455
Indonesia	5	9	0	19,526	20,878	6	80	86
Ireland	—	0	1	591	6,928	26	2	29
Israel	—	334	1	2,327	2,327	—	10	10
Italy	0	7	1	5,286	49,494	182	22	204
Jamaica	0	43	0	5,264	5,264	—	22	22
Japan	10	99	41	109,144	117,099	33	449	482
Korea, South	2	49	3	41,785	121,527	328	172	500
Lebanon	—	2	—	239	239	—	1	1
Mexico	837	6,058	243	288,094	288,094	—	1,186	1,186
Montenegro	—	—	—	110	110	—	0	0
Morocco	—	0	—	15,047	15,047	—	62	62
Mozambique	—	2	—	647	647	—	3	3
Netherlands	5	247	3	42,974	124,595	336	177	513
New Zealand	198	6	—	426	426	—	2	2
Nicaragua	—	42	—	2,674	4,377	7	11	18
Nigeria	1	713	—	6,517	6,517	—	27	27
Norway	—	1	0	10,456	13,341	12	43	55
Pakistan	—	1	0	290	290	—	1	1
Panama	225	209	0	34,509	35,631	5	142	147
Peru	0	607	1	37,148	41,376	17	153	170
Philippines	—	10	1	1,293	1,293	—	5	5
Portugal	—	0	—	6,442	10,031	15	27	41
Puerto Rico	166	147	0	2,055	2,055	—	8	8
Romania	—	2	—	283	283	—	1	1
Saudi Arabia	0	40	0	2,985	2,985	—	12	12
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—
Singapore	1	84	0	24,434	102,303	320	101	421
South Africa	0	263	—	4,506	4,506	—	19	19
Spain	0	15	—	12,534	55,464	177	52	228
Switzerland	—	35	0	4,268	5,803	6	18	24
Taiwan	2	46	1	2,804	48,940	190	12	201
Thailand	1	60	1	794	16,238	64	3	67
Trinidad and Tobago	—	69	0	5,113	5,113	—	21	21
Turkey	1	183	—	18,198	18,198	—	75	75
United Arab Emirates	6	260	0	1,213	1,213	—	5	5
United Kingdom	1	110	0	21,604	102,006	331	89	420
Venezuela	—	53	0	68	68	—	0	0
Other	97	603	30	54,247	83,725	120	222	343
Total	3,936	24,809	442	1,451,532	2,292,767	3,462	5,973	9,435

-- = Not Applicable.

- = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

² EIA is unable to report exports of renewable diesel fuel and other biofuels because of limitations of product classification information available in export data from the U.S. Census Bureau.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, August 2022
(Thousand Barrels per Day)

Country of Origin	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins ²	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	934	-12	-	222	-	-10	-10	1	30	31
Algeria	12	-	-	29	-	-	-	1	-	1
Angola	50	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	11	-	-	-	-	-	-	-	-
Gabon	23	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	214	-	-	92	-	-	-	-	-	-
Kuwait	20	-	-	0	-	-	-	-	-	-
Libya	68	-	-	0	-	-	-	-	-	-
Nigeria	140	-23	-	8	-	-10	-10	-	14	14
Saudi Arabia	384	-	-	72	-	-	-	-	16	16
United Arab Emirates	24	0	-	20	-	-	-	-	-	-
Venezuela	-	0	-	0	-	-	-	-	-	-
Non-OPEC	1,744	-2,252	15	18	-	-859	-859	171	365	537
Argentina	31	-	-	-5	-	-	-	-	8	8
Aruba	-	0	-	0	-	0	0	-	-	-
Australia	-19	-19	-	0	-	0	0	-	-	-
Bahamas	-	-1	-	-	-	11	11	-	24	24
Bahrain	-	-	-	-	-	0	0	0	-	0
Belgium	-	-24	-	5	-	13	13	7	5	12
Brazil	96	-37	-	5	-	-62	-62	-	15	15
Brunei	-	-	-	-	-	-	-	-	9	9
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	3,513	-116	15	-83	-	-8	-8	40	37	77
Chad	-	-	-	-	-	-	-	-	-	-
China	-282	-377	-	0	-	-	-	-	-	-
Colombia	163	-2	-	-31	-	-61	-61	-	-	-
Denmark	-20	-	-	-6	-	-	-	0	1	1
Dominican Republic	-16	-58	-	0	-	-24	-24	0	-	0
Ecuador	176	-34	-	-6	-	-19	-19	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-24	-20	-	-	-	-	-	-	10	10
France	-99	-13	-	1	-	4	4	5	4	9
Germany	-147	0	-	0	-	-	-	-	0	0
Guatemala	-	0	-	-	-	-45	-45	0	0	0
Honduras	-	-13	-	0	-	-17	-17	-	-	-
India	-118	-76	-	0	-	-	-	11	59	70
Indonesia	-6	-75	-	0	-	-	-	-	-	-
Italy	-142	-	-	10	-	-	-	3	25	28
Japan	-93	-477	-	-16	-	0	0	-	1	1
Korea, South	-404	-119	-	0	-	8	8	-	43	43
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	19	19	-	-	-
Malaysia	-43	-	-	51	-	-	-	-	9	9
Mexico	641	-214	-	66	-	-534	-534	0	-15	-15
Netherlands	-347	-68	-	-1	-	5	5	37	15	52
Norway	-	-53	-	-8	-	-	-	10	20	30
Oman	-	-	-	10	-	-	-	-	3	3
Panama	-	-3	-	-	-	-17	-17	-	-	-
Portugal	-	-14	-	-	-	-	-	-	37	37
Puerto Rico	-	0	-	-	-	0	0	-	0	0
Qatar	-	-	-	0	-	0	0	0	-	0
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-142	-46	-	9	-	-	-	-	22	22
Sweden	-59	-25	-	-	-	-	-	0	1	1
Trinidad and Tobago	61	0	-	0	-	0	0	-	-	-
United Kingdom	-406	-35	-	-	-	-7	-7	48	10	58
Vietnam	-	-25	-	0	-	-	-	-	-	-
Virgin Islands, U.S.	-	-1	-	-	-	-4	-4	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	-570	-307	0	17	-	-121	-121	10	22	33
Total	2,677	-2,264	15	240	-	-869	-869	172	396	568
Persian Gulf⁵	641	0	-	184	-	0	0	0	16	16

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, August 2022
(Thousand Barrels per Day) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel ²	Other Biofuels ^{2,3}	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	-2	0	-	-	0	-	-	-	0	0	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	0	-	-	-	0	-	-	-	0	-	-
Nigeria	0	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-2	-	-	-	0	-	-	-	0	-	-
United Arab Emirates	-	0	-	-	-	-	-	-	-	0	-
Venezuela	-	-	-	-	0	-	-	-	0	-	-
Non-OPEC	-43	-15	14	0	-1,062	-94	-92	-	-1,248	-14	0
Argentina	0	-	-	-	-95	-	-10	-	-105	0	-
Aruba	0	-	-	-	0	-	-	-	0	-	-
Australia	0	-	-	-	-	-	-	-	-	-	-
Bahamas	0	-	-	-	-18	-2	-11	-	-32	0	-
Bahrain	0	-	-	-	-	-	-	-	-	-	-
Belgium	0	-	-	-	-11	-	-3	-	-14	-	-
Brazil	14	-	-	-	-172	-	-9	-	-181	-7	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-41	-7	-	-	141	-9	-7	-	125	-6	0
Chad	-	-	-	-	-	-	-	-	-	-	-
China	0	-	-	-	-10	-	-	-	-10	-	-
Colombia	0	-	-	-	-1	-	-	-	-1	0	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Dominican Republic	0	-	-	-	-9	-	-14	-	-23	0	-
Ecuador	-	-	-	-	-22	-9	-	-	-32	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-2	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	0	-
Germany	0	0	-	-	0	-	-	-	0	-	-
Guatemala	0	-	-	-	-31	-18	-	-	-49	0	-
Honduras	-	-	-	-	-11	-6	-4	-	-21	0	-
India	0	-	-	-	0	-	-	-	0	-	-
Indonesia	0	-	-	-	-	-	-	-	-	-	-
Italy	0	-	-	-	-	-	-	-	-	-	-
Japan	0	-	-	0	-	-	-	-	-	-	-
Korea, South	-5	0	-	-	15	10	-	-	25	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	0	-	-	-	-	-	-	-
Mexico	-4	0	-	-	-370	-3	0	-	-374	0	-
Netherlands	-2	-	-	-	-55	-	-	-	-55	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Panama	0	-	-	-	-69	-	-11	-	-80	0	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	0	-	-	-	0	-	-	-	0	-	-
Qatar	0	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	0	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-4	-	-	-	-4	-	-
United Kingdom	0	0	-	-	-27	-	-	-	-27	0	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-39	-	-9	-	-48	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-3	-8	14	0	-274	-57	-14	-	-342	-1	0
Total	-45	-15	14	0	-1,062	-94	-92	-	-1,248	-14	0
Persian Gulf⁵	-2	0	-	-	0	-	-	-	0	0	-

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, August 2022
(Thousand Barrels per Day) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks ²		Waxes	Petroleum Coke
					Naphtha	Other Oils		
OPEC	-	-	-	22	-	-	0	5
Algeria	-	-	-	11	-	-	-	0
Angola	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	0	5
Libya	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	11	-	-	0	0
United Arab Emirates	-	-	-	-	-	-	0	0
Venezuela	-	-	-	-	-	-	-	-
Non-OPEC	-	-125	35	56	13	3	0	-568
Argentina	-	-1	-	0	-	-	0	-3
Aruba	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	0	-4
Bahamas	-	-11	-	-10	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-13
Brazil	-	-	-	27	-	-	0	-49
Brunei	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-
Canada	-	-21	0	6	2	3	0	-36
Chad	-	-	-	-	-	-	-	-
China	-	-	-	0	-	-	1	-68
Colombia	-	-	-	6	-	-	0	-
Denmark	-	-	-	10	-	-	-	-
Dominican Republic	-	-7	-	-1	-	-	0	-12
Ecuador	-	-	-	10	-	-	0	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	0	0	-1
Germany	-	-	-	-	-	-	0	0
Guatemala	-	-1	-	-	-	-	-	-17
Honduras	-	-1	-	-	-	-	0	-9
India	-	8	-	0	-	-	0	-58
Indonesia	-	-	-	-	-	-	0	-
Italy	-	-	-	-	-	-	0	-
Japan	-	27	-	0	-	-	0	-78
Korea, South	-	39	34	-18	2	-	0	0
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	0	-
Mexico	-	-74	-	59	4	-	-1	-45
Netherlands	-	-10	-	-	-	-	0	-2
Norway	-	-	-	-	-	-	-	-4
Oman	-	-	-	-	-	-	-	-6
Panama	-	-19	-	-44	-	-	0	-
Portugal	-	-	-	-	-	-	-	-
Puerto Rico	-	-11	-	-	-	-	0	-
Qatar	-	-	-	-	-	-	0	-
Russia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	0	-25
Sweden	-	-	-	-	-	-	-	0
Trinidad and Tobago	-	0	-	-	-	-	-	-
United Kingdom	-	-	-	0	-	-	0	-2
Vietnam	-	-	-	-	-	-	0	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-
Other	-	-43	1	11	5	0	0	-136
Total	-	-125	35	78	13	3	0	-563
Persian Gulf⁵	-	-	-	11	-	-	0	5

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, August 2022
(Thousand Barrels per Day) — Continued

Country of Origin	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products ⁴	Total Crude Oil and Products ⁴
OPEC	0	7	0	262	1,196
Algeria	--	0	--	41	53
Angola	--	--	--	--	50
Congo (Brazzaville)	--	--	--	--	--
Equatorial Guinea	--	0	--	11	11
Gabon	--	0	--	0	23
Iran	--	--	--	--	--
Iraq	--	0	--	92	306
Kuwait	--	0	0	5	25
Libya	--	0	--	0	68
Nigeria	--	0	--	-11	129
Saudi Arabia	--	0	--	97	481
United Arab Emirates	0	8	--	27	51
Venezuela	--	0	--	0	0
Non-OPEC	46	-23	-2	-4,412	-2,668
Argentina	--	0	--	-106	-76
Aruba	--	0	--	-1	-1
Australia	0	0	--	-23	-41
Bahamas	0	0	0	-19	-19
Bahrain	--	2	--	2	2
Brazil	0	-5	0	-26	-26
Brazil	--	-9	0	-284	-188
Brunei	--	--	--	9	9
Cameroon	--	--	--	--	--
Canada	40	0	0	-50	3,463
Chad	--	--	--	--	--
China	0	0	0	-454	-737
Colombia	2	-4	0	-90	72
Denmark	--	1	--	6	-14
Dominican Republic	-1	-2	--	-128	-144
Ecuador	0	-3	0	-84	91
Estonia	--	--	--	--	--
Finland	--	0	--	-11	-35
France	--	0	--	1	-97
Germany	0	1	--	1	-147
Guatemala	0	-1	--	-113	-113
Honduras	-1	-1	--	-63	-63
India	0	-1	0	-57	-175
Indonesia	0	6	--	-69	-75
Italy	--	0	0	38	-104
Japan	0	0	0	-542	-635
Korea, South	--	12	0	21	-383
Latvia	--	0	--	0	0
Lithuania	--	0	--	19	19
Malaysia	0	0	--	60	17
Mexico	-6	-21	-1	-1,160	-519
Netherlands	0	0	0	-81	-428
Norway	--	0	--	-35	-35
Oman	--	0	--	6	6
Panama	--	-1	--	-164	-164
Portugal	--	--	--	23	23
Puerto Rico	0	0	--	-12	-12
Qatar	--	14	--	14	14
Russia	--	--	--	--	--
Spain	10	0	--	-31	-173
Sweden	--	0	--	-24	-83
Trinidad and Tobago	--	0	0	-4	57
United Kingdom	0	0	--	-13	-419
Vietnam	--	0	--	-25	-25
Virgin Islands, U.S.	0	0	--	-53	-53
Yemen	--	0	--	0	0
Other	2	-11	-1	-890	-1,457
Total	46	-16	-2	-4,150	-1,472
Persian Gulf⁵	0	23	0	237	879

-- = Not Applicable.

- = No Data Reported.

1 On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

2 Quantities are gross imports because exports are excluded from EIA data.

3 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

4 Includes gross imports of refinery olefins, renewable diesel, other biofuels, and petrochemical feedstocks. See footnote 2.

5 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-August 2022
(Thousand Barrels per Day)

Country of Origin	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins ²	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	980	-6	-	174	-	-4	-4	6	33	39
Algeria	8	2	-	38	-	0	0	0	-	0
Angola	43	0	-	-	-	0	0	-	3	3
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	3	-	-	-	-	-	-	-	-
Gabon	3	-	-	-	-	-	-	-	-	-
Iran	2	-	-	-	-	-	-	-	-	-
Iraq	246	-	-	59	-	-	-	-	-	-
Kuwait	24	0	-	10	-	0	0	0	0	0
Libya	74	-	-	0	-	0	0	-	-	-
Nigeria	98	-12	-	3	-	-7	-7	-	7	7
Saudi Arabia	465	0	-	48	-	3	3	4	22	27
United Arab Emirates	18	0	-	17	-	0	0	1	1	2
Venezuela	-	0	-	0	-	0	0	0	0	0
Non-OPEC	1,883	-2,219	16	34	-	-747	-747	155	312	467
Argentina	54	-1	-	-7	-	-3	-3	-	6	6
Aruba	-	0	-	0	-	-1	-1	-	0	0
Australia	-24	-12	-	0	-	0	0	0	0	0
Bahamas	-2	-1	-	-1	-	-2	-2	-	5	5
Bahrain	-	-	-	0	-	0	0	0	-	0
Belgium	-4	-57	-	-8	-	12	12	3	6	9
Brazil	55	-51	-	-57	-	-36	-36	-	8	8
Brunei	-	-	-	-	-	-	-	-	1	1
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	3,495	-98	16	-54	-	-11	-11	68	25	94
Chad	-	-	-	-	-	-	-	-	-	-
China	-196	-296	-	0	-	0	0	-	0	0
Colombia	205	-3	-	-31	-	-37	-37	-	0	0
Denmark	-45	-	-	-1	-	0	0	0	1	1
Dominican Republic	-20	-41	-	0	-	-13	-13	0	-1	-1
Ecuador	133	-35	-	6	-	-18	-18	-	0	0
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-3	-21	-	-2	-	0	0	-	20	20
France	-174	-21	-	5	-	7	7	5	10	14
Germany	-109	-1	-	0	-	1	1	0	2	2
Guatemala	2	-9	-	0	-	-41	-41	0	0	0
Honduras	-	-17	-	0	-	-16	-16	-	0	0
India	-269	-122	-	2	-	1	1	3	68	71
Indonesia	-3	-80	-	0	-	-	-	-	-	-
Italy	-182	-3	-	8	-	7	7	0	19	20
Japan	-33	-387	-	-7	-	1	1	0	4	4
Korea, South	-328	-146	-	-2	-	12	12	0	15	15
Latvia	-	-	-	0	-	-	-	-	-	-
Lithuania	-6	-	-	0	-	5	5	-	3	3
Malaysia	-6	0	-	9	-	0	0	-	2	2
Mexico	657	-204	0	53	-	-485	-485	0	-21	-21
Netherlands	-336	-83	-	-35	-	10	10	31	20	51
Norway	11	-35	-	-3	-	1	1	5	9	14
Oman	-	0	-	1	-	-	-	-	1	1
Panama	-5	-6	-	0	-	-20	-20	0	-1	-1
Portugal	-15	-23	-	-	-	1	1	0	22	22
Puerto Rico	-	0	-	0	-	-1	-1	0	0	0
Qatar	-	0	-	2	-	0	0	0	0	0
Russia	30	0	-	148	-	1	1	-	9	9
Spain	-177	-33	-	3	-	4	4	0	28	29
Sweden	-34	-38	-	-2	-	1	1	0	6	7
Trinidad and Tobago	44	1	-	0	-	-1	-1	-	-	-
United Kingdom	-298	-48	-	-1	-	3	3	37	14	52
Vietnam	-8	-10	-	0	-	-	-	-	0	0
Virgin Islands, U.S.	-	-1	-	0	-	-3	-3	0	0	0
Yemen	-	-	-	-	-	-	-	-	-	-
Other	-526	-337	0	8	-	-126	-126	3	31	30
Total	2,863	-2,226	16	208	-	-751	-751	161	345	506
Persian Gulf⁵	754	0	-	135	-	3	3	6	23	29

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-August 2022
(Thousand Barrels per Day) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel ²	Other Biofuels ^{2,3}	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	-6	0	-	-	13	0	-	-	12	0	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	0	-	-	-	0	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	0	-	-	-	0	-	-
Kuwait	0	-	-	-	-	-	-	-	-	-	-
Libya	0	-	-	-	0	-	-	-	0	-	-
Nigeria	-3	-	-	-	3	0	-	-	2	0	-
Saudi Arabia	-2	0	-	-	10	-	-	-	10	0	-
United Arab Emirates	-1	0	-	-	0	-	-	-	0	0	-
Venezuela	0	-	-	-	0	-	-	-	0	-	-
Non-OPEC	-89	-9	17	0	-889	-90	-95	1	-1,073	-7	1
Argentina	0	0	-	-	-56	-2	-9	-	-67	0	-
Aruba	0	-	-	-	-1	-	0	-	-1	0	-
Australia	0	0	-	-	0	-	0	-	0	-	-
Bahamas	0	0	-	-	-16	-1	-8	-	-25	0	-
Bahrain	0	-	-	-	-	-	-	-	-	0	-
Belgium	0	0	-	-	-3	-	-1	-	-3	-	-
Brazil	-2	-	-	-	-139	-6	-7	-	-152	-3	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-31	-5	-	-	133	-7	-5	-	121	-1	0
Chad	-	-	-	-	-	-	-	-	-	-	-
China	0	0	-	-	-2	-1	0	-	-3	0	-
Colombia	-1	-	-	-	-33	-1	-	-	-34	0	-
Denmark	-	-	-	-	-2	-	-	-	-2	-	-
Dominican Republic	0	-	-	-	-10	0	-9	-	-20	0	-
Ecuador	0	-	-	-	-34	-4	-2	1	-38	0	-
Estonia	-	-	-	-	-	-	-	-	-	-	0
Finland	0	-	-	0	-	-	-	-	-	-	-
France	0	-	-	-	-4	-1	-	-	-5	0	-
Germany	0	3	-	-	0	-	-	-	0	-	-
Guatemala	0	-	-	-	-23	-10	-5	-	-38	0	-
Honduras	0	-	-	-	-11	-11	-2	-	-24	-1	-
India	-8	0	-	-	-1	0	-	-	-1	-	-
Indonesia	0	0	-	-	0	-	-	-	0	-	-
Italy	0	0	-	-	-	-	-	-	-	-	-
Japan	0	-	-	0	0	-	-	-	0	0	-
Korea, South	-13	1	-	-	4	5	-	-	9	0	0
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	0	-	-	-	-	-	-	-	-	-	-
Malaysia	0	0	-	0	-	-	-	-	-	0	-
Mexico	-5	0	-	-	-289	-4	-2	-	-296	0	-
Netherlands	-7	-1	0	-	-6	-2	-5	-	-13	0	0
Norway	-	0	-	-	-1	-	-	-	-1	-	-
Oman	-1	-	-	-	0	-	-	-	0	-	-
Panama	0	-	-	-	-60	-7	-6	-	-73	0	-
Portugal	-	-	-	-	1	-	-	-	1	-	-
Puerto Rico	0	-	-	-	-3	-1	0	-	-3	0	-
Qatar	0	-	-	-	12	-	-	-	12	-	-
Russia	-	-	-	-	9	-	0	-	9	-	-
Spain	0	2	-	-	-3	-	-	-	-3	0	-
Sweden	-1	-	-	-	0	-1	-	-	-1	-	-
Trinidad and Tobago	0	-	-	-	-7	-	-9	-	-16	-	-
United Kingdom	-5	0	-	-	-25	-2	-	-	-27	0	-
Vietnam	-	-	-	-	0	-	-	-	0	-	-
Virgin Islands, U.S.	0	-	-	-	-13	-2	-4	-	-20	0	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-15	-9	17	0	-306	-32	-21	0	-359	-2	1
Total	-95	-9	17	0	-877	-90	-95	1	-1,061	-7	1
Persian Gulf⁵	-3	0	-	-	22	-	-	-	22	0	-

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-August 2022
(Thousand Barrels per Day) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks ²		Waxes	Petroleum Coke
					Naphtha	Other Oils		
OPEC	-	8	-	14	0	-	0	-4
Algeria	-	-	-	5	-	-	-	0
Angola	-	-	-	-	0	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-
Equatorial Guinea	-	0	-	0	-	-	-	-
Gabon	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	-	-	-	2	-	-	0	-
Kuwait	-	5	-	-	-	-	0	-1
Libya	-	-	-	-	-	-	-	-
Nigeria	-	0	-	-	-	-	0	-1
Saudi Arabia	-	2	-	6	-	-	0	0
United Arab Emirates	-	1	-	0	-	-	0	-2
Venezuela	-	0	-	-	-	-	0	-
Non-OPEC	-	-68	13	101	12	3	1	-544
Argentina	-	-1	-	0	-	0	0	1
Aruba	-	-1	-	-	-	-	-	-
Australia	-	0	-	0	-	-	0	-7
Bahamas	-	-4	-	-13	-	-	-	-
Bahrain	-	-	-	-	-	-	0	-
Belgium	-	-	-	-1	-	-	0	-3
Brazil	-	-4	-	21	-	-	0	-51
Brunei	-	-	-	-	-	-	-	-
Cameroon	-	-	-	0	-	-	-	0
Canada	-	-13	3	8	3	3	0	-20
Chad	-	-	-	-	-	-	-	-
China	-	4	-	0	-	-	1	-93
Colombia	-	-2	-	13	-	-	0	0
Denmark	-	-	-	2	-	-	0	-2
Dominican Republic	-	-8	-	-3	-	-	0	-5
Ecuador	-	0	-	4	-	-	0	-4
Estonia	-	-	-	-	-	-	0	-
Finland	-	-	-	-	-	-	0	-1
France	-	-	-	0	0	0	0	-4
Germany	-	-	0	1	-	-	0	-1
Guatemala	-	-2	-	0	-	-	0	-11
Honduras	-	-2	-	0	-	-	0	-7
India	-	3	-	0	-	-	0	-52
Indonesia	-	-	-	-	-	-	0	0
Italy	-	-	-	0	-	-	0	-19
Japan	-	17	1	0	1	-	0	-52
Korea, South	-	66	8	-8	1	-	0	-1
Latvia	-	0	-	-	-	-	-	-
Lithuania	-	-	-	5	-	-	0	-
Malaysia	-	-	-	-	-	-	1	0
Mexico	-	-60	0	82	3	-	-1	-55
Netherlands	-	-2	0	2	-	-	0	-12
Norway	-	-	-	1	-	-	-	-3
Oman	-	-	-	-	-	-	-	-3
Panama	-	-14	-	-23	-	-	0	-1
Portugal	-	-	-	-	-	-	0	-4
Puerto Rico	-	-3	-	0	-	-	0	-
Qatar	-	2	-	-	0	-	0	-1
Russia	-	-	-	23	-	-	0	0
Spain	-	-	0	3	0	-	0	-14
Sweden	-	-	-	0	-	-	0	0
Trinidad and Tobago	-	-3	-	0	-	-	0	0
United Kingdom	-	-1	-	2	0	0	0	-3
Vietnam	-	0	-	-	-	-	0	0
Virgin Islands, U.S.	-	-3	-	-14	-	-	-	-
Yemen	-	-	-	-	-	-	-	-
Other	-	-37	1	-4	4	0	0	-116
Total	-	-60	13	115	12	3	1	-548
Persian Gulf⁵	-	9	-	9	0	-	0	-5

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-August 2022
(Thousand Barrels per Day) — Continued

Country of Origin	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products ⁴	Total Crude Oil and Products ⁴
OPEC	0	2	0	228	1,208
Algeria	--	0	--	45	53
Angola	0	0	--	3	46
Congo (Brazzaville)	--	--	--	--	0
Equatorial Guinea	--	0	--	3	3
Gabon	--	0	--	0	3
Iran	--	--	--	--	2
Iraq	--	0	--	61	307
Kuwait	--	0	0	14	38
Libya	--	0	--	0	74
Nigeria	0	-3	--	-14	84
Saudi Arabia	0	0	0	93	558
United Arab Emirates	0	5	0	21	39
Venezuela	--	0	0	0	0
Non-OPEC	39	-56	-2	-4,109	-2,226
Argentina	-1	-1	0	-73	-19
Aruba	--	0	--	-4	-4
Australia	0	0	0	-19	-43
Bahamas	0	0	0	-42	-44
Bahrain	--	2	--	2	2
Brazil	0	-13	0	-65	-69
Brazil	0	-10	0	-337	-282
Brunei	--	0	--	1	1
Cameroon	--	0	--	0	0
Canada	45	-1	0	58	3,554
Chad	--	--	--	--	--
China	0	0	0	-388	-584
Colombia	1	-10	0	-105	100
Denmark	--	0	--	-2	-47
Dominican Republic	-1	-1	0	-94	-114
Ecuador	0	-2	0	-87	46
Estonia	--	0	--	0	0
Finland	--	0	--	-4	-7
France	--	-2	0	-4	-178
Germany	0	0	0	7	-102
Guatemala	0	-1	--	-103	-100
Honduras	-1	0	0	-68	-68
India	0	-3	0	-108	-377
Indonesia	0	4	0	-77	-80
Italy	0	0	0	14	-168
Japan	0	0	0	-422	-455
Korea, South	0	11	0	-46	-374
Latvia	--	0	--	-1	-1
Lithuania	--	0	0	12	7
Malaysia	0	0	0	11	5
Mexico	-3	-25	-1	-1,017	-360
Netherlands	0	1	0	-90	-426
Norway	--	0	0	-26	-15
Oman	--	0	--	-2	-2
Panama	-1	-1	0	-141	-146
Portugal	--	0	--	-2	-17
Puerto Rico	-1	-1	0	-8	-8
Qatar	--	10	--	26	26
Russia	0	0	--	191	221
Spain	2	0	--	-9	-185
Sweden	--	0	0	-34	-68
Trinidad and Tobago	--	0	0	-20	23
United Kingdom	0	0	0	-29	-326
Vietnam	0	0	0	-10	-18
Virgin Islands, U.S.	0	0	--	-40	-40
Yemen	--	0	--	0	0
Other	-1	-13	-1	-954	-1,484
Total	39	-54	-2	-3,881	-1,018
Persian Gulf⁵	0	18	0	218	972

-- = Not Applicable.

- = No Data Reported.

1 On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

2 Quantities are gross imports because exports are excluded from EIA data.

3 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

4 Includes gross imports of refinery olefins, renewable diesel, other biofuels, and petrochemical feedstocks. See footnote 2.

5 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, August 2022
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Crude Oil	7,044	106,514	679,906	22,772	48,563	864,799
Refinery	5,457	13,395	43,857	2,262	20,291	85,262
Tank Farms and Pipelines (Includes Cushing, OK)	1,587	93,119	190,992	20,510	24,945	331,153
Cushing, Oklahoma	--	24,714	--	--	--	24,714
Leases	--	--	--	--	--	--
Strategic Petroleum Reserve ¹	--	--	445,057	--	--	445,057
Alaskan In Transit	--	--	--	--	3,327	3,327
Total Stocks, All Oils (excluding Crude Oil)²	126,987	173,888	381,283	24,200	86,287	792,646
Refinery	11,538	47,245	116,712	9,534	46,700	231,729
Bulk Terminal	87,486	88,692	203,264	8,088	34,655	422,186
Pipeline	27,703	36,452	59,203	6,402	4,572	134,332
Natural Gas Processing Plant	260	1,499	2,104	176	360	4,399
Natural Gas Liquids	10,557	56,177	149,706	7,890	4,520	228,850
Refinery	423	3,943	6,177	385	1,429	12,357
Bulk Terminal	7,682	33,817	117,903	2,911	2,731	165,044
Pipeline	2,192	16,918	23,522	4,418	--	47,050
Natural Gas Processing Plant	260	1,499	2,104	176	360	4,399
Ethane	942	5,806	42,080	1,235	--	50,063
Refinery	--	--	31	--	--	31
Bulk Terminal	356	2,064	33,334	--	--	35,754
Pipeline	586	3,598	8,659	1,231	--	14,074
Natural Gas Processing Plant	--	144	56	4	--	204
Propane	6,717	21,229	40,378	2,727	1,653	72,704
Refinery	87	957	1,209	46	89	2,388
Bulk Terminal	5,192	15,697	32,350	1,089	1,497	55,825
Pipeline	1,306	3,801	6,637	1,514	--	13,258
Natural Gas Processing Plant	132	774	182	78	67	1,233
Normal Butane	2,415	17,131	44,725	2,734	2,488	69,493
Refinery	291	2,009	3,864	238	1,017	7,419
Bulk Terminal	1,863	13,833	37,476	1,818	1,224	56,214
Pipeline	213	1,066	2,930	643	--	4,852
Natural Gas Processing Plant	48	223	455	35	247	1,008
Isobutane	100	2,004	7,768	415	333	10,620
Refinery	45	502	864	87	322	1,820
Bulk Terminal	--	637	5,164	--	--	5,801
Pipeline	44	727	1,260	313	--	2,344
Natural Gas Processing Plant	11	138	480	15	11	655
Natural Gasoline	383	10,007	14,755	779	46	25,970
Refinery	--	475	209	14	1	699
Bulk Terminal	271	1,586	9,579	4	10	11,450
Pipeline	43	7,726	4,036	717	--	12,522
Natural Gas Processing Plant	69	220	931	44	35	1,299
Refinery Olefins	198	480	979	102	42	1,801
Refinery	198	480	979	102	42	1,801
Ethylene	--	--	0	--	--	0
Refinery	--	--	0	--	--	0
Propylene	110	380	587	5	9	1,091
Refinery	110	380	587	5	9	1,091
Normal Butylene	3	100	372	97	33	605
Refinery	3	100	372	97	33	605
Isobutylene	85	0	20	0	0	105
Refinery	85	0	20	0	0	105
Other Hydrocarbons	--	17	--	--	--	17
Refinery	--	17	--	--	--	17
Biofuels (Including Fuel Ethanol)²	8,129	9,603	5,266	603	5,184	28,785
Refinery	219	95	893	132	818	2,157
Bulk Terminal	7,910	9,508	4,373	471	4,366	26,628
Pipeline	--	--	--	--	--	--
Fuel Ethanol	7,435	8,625	4,009	385	2,885	23,340
Refinery	212	83	789	125	196	1,405
Bulk Terminal	7,223	8,542	3,220	260	2,689	21,935
Pipeline	--	--	--	--	--	--
Biodiesel	694	868	592	12	545	2,712
Refinery	7	12	104	7	9	139
Bulk Terminal	687	856	488	5	536	2,573
Pipeline	--	--	--	--	--	--
Renewable Diesel Fuel	--	79	580	190	1,705	2,554
Refinery	--	--	--	--	613	613
Bulk Terminal	--	79	580	190	1,092	1,941
Pipeline	--	--	--	--	--	--
Other Biofuels³	--	31	84	15	48	179
Refinery	--	--	--	--	--	--
Bulk Terminal	--	31	84	15	48	179
Pipeline	--	--	--	--	--	--

See footnotes at end of table.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, August 2022
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Unfinished Oils	3,659	13,803	47,151	2,689	19,130	86,432
Naphthas and Lighter	1,038	3,563	10,004	511	3,098	18,214
Refinery	1,022	3,525	9,064	511	2,834	16,956
Bulk Terminal	--	--	--	--	--	--
Kerosene and Light Gas Oils	335	2,807	8,473	540	3,198	15,353
Refinery	335	2,807	6,500	540	3,116	13,298
Bulk Terminal	--	--	1,973	--	82	2,055
Heavy Gas Oils	1,579	5,079	22,449	1,158	9,206	39,471
Refinery	1,555	4,730	19,128	1,158	8,409	34,980
Bulk Terminal	24	349	3,321	--	797	4,491
Residuum	707	2,354	6,225	480	3,628	13,394
Refinery	707	2,354	6,225	480	3,628	13,394
Bulk Terminal	--	--	--	--	--	--
Motor Gasoline Blending Components²	51,476	39,501	77,539	5,352	24,711	198,579
Refinery	3,001	11,730	25,820	2,681	12,232	55,464
Bulk Terminal	37,045	18,944	32,946	1,759	10,014	100,708
Pipeline	11,430	8,827	18,773	912	2,465	42,407
Reformulated - RBOB	15,421	4,211	10,761	--	12,097	42,490
Refinery	830	710	1,465	--	4,613	7,618
Bulk Terminal	11,005	2,685	4,501	--	6,150	24,341
Pipeline	3,586	816	4,795	--	1,334	10,531
Conventional	36,055	35,289	66,778	5,352	12,614	156,088
Refinery	2,171	11,020	24,355	2,681	7,619	47,846
Bulk Terminal	26,040	16,258	28,445	1,759	3,864	76,366
Pipeline	7,844	8,011	13,978	912	1,131	31,876
CBOB	25,766	28,649	37,637	4,117	7,032	103,201
Refinery	498	5,205	10,449	1,449	2,214	19,815
Bulk Terminal	17,427	15,512	13,458	1,756	3,689	51,842
Pipeline	7,841	7,932	13,730	912	1,129	31,544
GTAB	1,037	--	--	--	--	1,037
Refinery	--	--	--	--	--	--
Bulk Terminal	1,037	--	--	--	--	1,037
Pipeline	--	--	--	--	--	--
Other	9,252	6,640	29,141	1,235	5,582	51,850
Refinery	1,673	5,815	13,906	1,232	5,405	28,031
Bulk Terminal	7,576	746	14,987	3	175	23,487
Pipeline	3	79	248	--	2	332
Aviation Gasoline Blending Components	--	--	33	--	--	33
Refinery	--	--	33	--	--	33
Bulk Terminal	--	--	--	--	--	--
Finished Motor Gasoline	2,644	4,497	6,965	1,041	1,888	17,035
Refinery	29	1,052	2,905	639	585	5,210
Bulk Terminal	781	1,125	3,445	270	1,285	6,906
Pipeline	1,834	2,320	615	132	18	4,919
Reformulated	4	--	--	--	18	23
Refinery	--	--	--	--	18	18
Bulk Terminal	4	--	--	1	--	5
Pipeline	--	--	--	--	--	--
Reformulated (Blended with Fuel Ethanol)	4	--	--	1	18	23
Refinery	--	--	--	--	18	18
Bulk Terminal	4	--	--	1	--	5
Pipeline	--	--	--	--	--	--
Reformulated (Other)	--	--	--	--	--	--
Refinery	--	--	--	--	--	--
Bulk Terminal	--	--	--	--	--	--
Pipeline	--	--	--	--	--	--
Conventional	2,640	4,497	6,965	1,040	1,870	17,012
Refinery	29	1,052	2,905	639	567	5,192
Bulk Terminal	777	1,125	3,445	269	1,285	6,901
Pipeline	1,834	2,320	615	132	18	4,919
Conventional (Blended with Fuel Ethanol)	--	120	--	57	20	197
Refinery	--	--	--	54	--	54
Bulk Terminal	--	120	--	3	20	143
Pipeline	--	--	--	--	--	--
Ed55 and Lower	--	120	--	57	--	177
Refinery	--	--	--	54	--	54
Bulk Terminal	--	120	--	3	--	123
Pipeline	--	--	--	--	--	--
Greater than Ed55	--	--	--	--	20	20
Refinery	--	--	--	--	--	--
Bulk Terminal	--	--	--	--	20	20
Pipeline	--	--	--	--	--	--
Conventional (Other)	2,640	4,377	6,965	983	1,850	16,815
Refinery	29	1,052	2,905	585	567	5,138
Bulk Terminal	777	1,005	3,445	266	1,265	6,758
Pipeline	1,834	2,320	615	132	18	4,919

See footnotes at end of table.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, August 2022
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Finished Aviation Gasoline	214	128	455	9	222	1,028
Refinery	—	56	323	9	121	509
Bulk Terminal	214	72	132	—	101	519
Pipeline	—	—	—	—	—	—
Kerosene-Type Jet Fuel	9,833	6,979	11,890	740	8,948	38,390
Refinery	523	1,952	4,468	263	3,410	10,616
Bulk Terminal	4,712	3,624	3,041	321	4,569	16,267
Pipeline	4,598	1,403	4,381	156	969	11,507
Kerosene	397	132	501	2	4	1,036
Refinery	50	110	162	2	1	325
Bulk Terminal	337	22	325	—	3	687
Pipeline	10	—	14	—	—	24
Distillate Fuel Oil²	28,238	27,276	42,019	3,724	12,004	113,261
Refinery	1,580	5,852	15,269	1,472	5,169	29,342
Bulk Terminal	19,019	14,440	14,852	1,468	5,715	55,494
Pipeline	7,639	6,984	11,898	784	1,120	28,425
15 ppm sulfur and Under	26,210	26,721	35,478	3,552	11,112	103,073
Refinery	1,334	5,495	12,335	1,343	4,633	25,140
Bulk Terminal	17,684	14,405	11,867	1,425	5,455	50,836
Pipeline	7,192	6,821	11,276	784	1,024	27,097
Greater than 15 ppm to 500 ppm sulfur	620	313	1,234	138	277	2,582
Refinery	63	131	682	95	252	1,223
Bulk Terminal	554	24	474	43	1	1,096
Pipeline	3	158	78	—	24	263
Greater than 500 ppm sulfur	1,408	242	5,307	34	615	7,606
Refinery	183	226	2,252	34	284	2,979
Bulk Terminal	781	11	2,511	—	259	3,562
Pipeline	444	5	544	—	72	1,065
Residual Fuel Oil	4,177	999	17,833	211	5,338	28,558
Refinery	228	868	4,593	211	2,295	8,195
Bulk Terminal	3,949	131	13,240	—	3,043	20,363
Pipeline	—	—	—	—	—	—
Less than 0.31% Sulfur	270	64	1,086	29	1,175	2,624
Refinery	18	57	56	29	21	181
Bulk Terminal	252	7	1,030	—	1,154	2,443
0.31% to 1.00% Sulfur	954	239	5,102	20	671	6,986
Refinery	87	236	1,068	20	351	1,762
Bulk Terminal	867	3	4,034	—	320	5,224
Greater than 1.00% Percent Sulfur	2,953	696	11,645	162	3,492	18,948
Refinery	123	575	3,469	162	1,923	6,252
Bulk Terminal	2,830	121	8,176	—	1,569	12,696
Petrochemical Feedstocks	—	518	2,032	—	2	2,552
Refinery	—	518	2,032	—	2	2,552
Naphtha for Petrochemical Feedstock Use	—	416	1,522	—	2	1,940
Other Oils for Petrochemical Feedstock Use	—	102	510	—	—	612
Special Naphthas	38	164	788	—	23	1,013
Refinery	25	88	777	—	23	913
Bulk Terminal	13	76	11	—	—	100
Lubricants	1,409	753	8,158	—	559	10,879
Refinery	814	238	4,780	—	344	6,176
Bulk Terminal	595	515	3,378	—	215	4,703
Waxes	177	67	270	—	—	514
Refinery	177	67	270	—	—	514
Petroleum Coke	—	2,142	3,486	148	1,554	7,330
Refinery	—	2,142	3,486	148	1,554	7,330
Asphalt and Road Oil	5,771	10,555	5,611	1,665	2,082	25,684
Refinery	582	4,522	2,329	778	611	8,822
Bulk Terminal	5,189	6,033	3,282	887	1,471	16,862
Miscellaneous Products	70	99	601	23	77	870
Refinery	70	99	499	23	77	768
Bulk Terminal	—	—	102	—	—	102
Pipeline	—	—	—	—	—	—
Total Stocks, All Oils	134,031	280,402	1,061,189	46,972	134,850	1,657,445

-- = Not Applicable.

- = No Data Reported.

1 Crude oil stocks in the Strategic Petroleum Reserve include non-U.S. stocks held under foreign or commercial storage agreements.

2 Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D. Includes stocks held at biofuel production facilities.

3 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene."

Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, August 2022
(Thousand Barrels)

Commodity	Motor Gasoline			Motor Gasoline Blending Components ¹			Kerosene
	Reformulated	Conventional	Total	Reformulated	Conventional	Total	
PAD District 1	4	806	810	11,835	28,211	40,046	387
Connecticut	—	—	—	1,257	33	1,290	3
Delaware	—	—	—	552	698	1,250	42
District of Columbia	—	—	—	—	—	—	—
Florida	—	508	508	—	5,577	5,577	—
Georgia	—	77	77	—	2,443	2,443	—
Maine	—	—	—	-34	532	498	33
Maryland	—	—	—	853	75	928	14
Massachusetts	3	—	3	1,037	—	1,037	1
New Hampshire	—	—	—	—	—	—	—
New Jersey	—	—	—	5,135	9,760	14,895	14
New York	1	—	1	485	1,426	1,911	138
North Carolina	—	45	45	—	2,001	2,001	38
Pennsylvania	—	—	—	409	3,347	3,756	56
Rhode Island	—	—	—	813	19	832	—
South Carolina	—	120	120	—	1,103	1,103	24
Vermont	—	—	—	—	14	14	2
Virginia	—	7	7	1,328	1,021	2,349	22
West Virginia	—	49	49	—	162	162	—
PAD District 2	—	2,177	2,177	3,395	27,278	30,674	132
Illinois	—	48	48	1,746	4,464	6,210	108
Indiana	—	85	85	514	3,225	3,739	1
Iowa	—	39	39	—	1,281	1,281	—
Kansas	—	301	301	—	2,202	2,202	4
Kentucky	—	47	47	393	1,365	1,758	—
Michigan	—	148	148	93	1,966	2,059	—
Minnesota	—	318	318	0	2,026	2,026	—
Missouri	—	135	135	226	517	743	—
Nebraska	—	34	34	—	486	486	—
North Dakota	—	29	29	—	681	681	—
Ohio	—	557	557	—	3,766	3,766	12
Oklahoma	—	250	250	—	2,563	2,563	—
South Dakota	—	29	29	—	190	190	—
Tennessee	—	44	44	—	1,600	1,600	—
Wisconsin	—	113	113	423	946	1,369	7
PAD District 3	—	6,350	6,350	5,966	52,800	58,766	487
Alabama	—	87	87	7	1,074	1,081	2
Arkansas	—	95	95	—	1,009	1,009	—
Louisiana	—	744	744	353	11,985	12,338	50
Mississippi	—	1,832	1,832	8	2,213	2,221	—
New Mexico	—	15	15	5	591	596	—
Texas	—	3,577	3,577	5,593	35,928	41,521	435
PAD District 4	1	908	909	—	4,440	4,440	2
Colorado	—	95	95	—	1,118	1,118	—
Idaho	—	45	45	—	312	312	—
Montana	—	328	328	—	1,039	1,039	—
Utah	1	82	83	—	1,479	1,479	2
Wyoming	—	358	358	—	492	492	—
PAD District 5	18	1,852	1,870	10,763	11,483	22,246	4
Alaska	—	220	220	—	355	355	3
Arizona	—	101	101	580	378	958	—
California	18	161	179	10,043	5,307	15,350	1
Hawaii	—	482	482	—	508	508	—
Nevada	—	221	221	19	404	423	—
Oregon	—	79	79	—	1,000	1,000	—
Washington	—	588	588	121	3,531	3,652	—
U.S. Total	23	12,093	12,116	31,959	124,212	156,172	1,012

See footnotes at end of table.

Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, August 2022
(Thousand Barrels) — Continued

Commodity	Distillate Fuel Oil ¹				Residual Fuel Oil	Propane
	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	Greater than 500 ppm	Total		
PAD District 1	19,018	617	964	20,599	4,177	5,411
Connecticut	967	—	—	967	8	—
Delaware	574	21	97	692	353	10
District of Columbia	—	—	—	—	—	—
Florida	2,457	85	—	2,542	726	265
Georgia	1,277	—	—	1,277	87	10
Maine	884	1	1	886	13	—
Maryland	657	—	—	657	171	—
Massachusetts	677	21	—	698	67	—
New Hampshire	321	—	—	321	5	453
New Jersey	4,415	117	501	5,033	2,295	76
New York	1,627	—	87	1,714	122	1,539
North Carolina	1,002	—	—	1,002	—	172
Pennsylvania	1,973	—	47	2,020	215	1,979
Rhode Island	335	—	—	335	—	—
South Carolina	654	—	—	654	39	520
Vermont	6	—	—	6	—	—
Virginia	1,073	333	231	1,637	76	5
West Virginia	119	39	—	158	—	89
PAD District 2	19,900	155	237	20,292	999	17,428
Illinois	2,986	—	3	2,989	353	976
Indiana	2,544	—	34	2,578	93	323
Iowa	1,434	—	—	1,434	1	339
Kansas	1,942	—	—	1,942	38	10,256
Kentucky	739	—	—	739	—	271
Michigan	1,169	—	—	1,169	120	3,895
Minnesota	1,468	—	33	1,501	128	359
Missouri	628	17	3	648	—	50
Nebraska	605	—	—	605	—	250
North Dakota	666	—	—	666	34	45
Ohio	1,702	7	121	1,830	94	528
Oklahoma	1,753	131	43	1,927	58	93
South Dakota	528	—	—	528	—	7
Tennessee	910	—	—	910	77	2
Wisconsin	825	—	—	825	3	34
PAD District 3	24,202	1,156	4,763	30,121	17,833	33,741
Alabama	829	5	41	875	268	16
Arkansas	978	—	—	978	—	41
Louisiana	5,741	548	1,101	7,390	8,054	2,533
Mississippi	1,037	323	89	1,449	937	2,216
New Mexico	234	—	—	234	60	2
Texas	15,383	280	3,532	19,195	8,514	28,933
PAD District 4	2,768	138	34	2,940	211	1,213
Colorado	643	—	—	643	19	18
Idaho	242	—	—	242	—	—
Montana	851	75	—	926	68	23
Utah	478	8	34	520	53	1,098
Wyoming	554	55	—	609	71	74
PAD District 5	10,088	253	543	10,884	5,338	1,653
Alaska	1,017	—	57	1,074	83	2
Arizona	649	—	—	649	—	998
California	4,455	252	222	4,929	3,393	402
Hawaii	289	1	259	549	733	62
Nevada	309	—	5	314	—	—
Oregon	1,004	—	—	1,004	124	—
Washington	2,365	—	—	2,365	1,005	189
U.S. Total	75,976	2,319	6,541	84,836	28,558	59,446

— = No Data Reported.

¹ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D. Includes stocks held at biofuel production facilities.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene."

Table 57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, August 2022
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	363	23	0	1,231	51,744	6,195	2,190	1,696	23,144
Petroleum Products	17,014	78	0	22,024	50,747	15,385	5,434	101,890	22,931
Natural Gas Liquids	7,538	66	0	7,596	38,523	11,446	597	1,262	12,021
Ethane	5,724	0	-	57	17,675	3,400	-	0	1,315
Propane	961	42	0	5,451	11,424	4,063	252	1,262	1,915
Normal Butane	254	1	0	1,974	4,245	1,825	280	0	503
Isobutane	346	23	0	114	1,542	633	65	0	795
Natural Gasoline	253	0	-	0	3,637	1,525	-	0	7,493
Refinery Olefins	0	0	-	411	619	-	-	0	0
Ethylene	-	-	-	-	-	-	-	-	-
Propylene	0	0	-	411	619	-	-	0	0
Normal Butylene	-	-	-	-	-	-	-	-	-
Isobutylene	-	-	-	-	-	-	-	-	-
Unfinished Oils	41	0	-	0	1,303	-	-	83	513
Motor Gasoline Blending Components	6,168	0	0	1,467	1,565	1,765	0	58,875	4,468
Reformulated - RBOB	0	0	0	0	0	-	0	11,204	1,799
Conventional	6,168	0	0	1,467	1,565	1,765	0	47,671	2,669
CBOB	6,168	0	0	1,467	1,263	1,765	0	46,603	2,471
GTAB	-	0	-	0	0	-	-	80	-
Other	0	0	-	0	302	-	-	988	198
Biofuels (including Fuel Ethanol)	0	0	0	9,196	5,541	459	4,703	37	33
Fuel Ethanol	0	0	0	9,130	5,400	441	4,459	37	0
Biodiesel	0	0	0	66	141	18	244	0	33
Renewable Diesel Fuel	-	0	0	-	0	-	0	-	-
Other Biofuels ²	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	106	0	0	772	6	105	0	1,338	1,393
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	106	0	0	772	6	105	0	1,338	1,393
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	106	0	0	772	6	105	0	1,338	1,393
Finished Aviation Gasoline	0	0	-	0	0	-	-	41	50
Kerosene-Type Jet Fuel	375	0	0	75	30	735	0	15,725	1,047
Kerosene	-	-	-	-	-	-	-	-	-
Distillate Fuel Oil	2,786	0	0	1,237	790	860	0	23,675	2,821
15 ppm sulfur and under	2,786	0	0	1,237	790	860	0	22,873	2,746
Greater than 15 ppm to 500 ppm sulfur	0	0	-	0	0	-	-	1	75
Greater than 500 ppm sulfur	-	0	-	0	0	-	-	801	-
Residual Fuel Oil	0	0	-	0	874	-	-	93	0
Petrochemical Feedstocks	0	0	-	-	71	-	-	-	0
Naphtha for Petrochemical Feedstock Use	0	0	-	-	48	-	-	-	0
Other Oils for Petrochemical Feedstock Use	0	0	-	-	23	-	-	-	0
Special Naphthas	0	0	-	-	100	-	-	-	37
Lubricants	0	0	-	0	23	-	-	441	220
Waxes	-	-	-	-	-	-	-	-	-
Marketable Petroleum Coke	0	12	0	503	975	13	29	6	19
Asphalt and Road Oil	0	0	0	767	327	3	105	314	308
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total	17,377	101	0	23,254	102,491	21,580	7,624	103,586	46,075

See footnotes at end of table.

Table 57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, August 2022
(Thousand Barrels) — Continued

Commodity	From 3 to		From 4 to				From 5 to		
	4	5	1	2	3	5	1	3	4
Crude Oil	0	0	0	25,527	1,054	0	0	0	0
Petroleum Products	2	5,964	0	23,026	5,049	1,940	0	26	40
Natural Gas Liquids	0	48	0	21,622	4,843	46	0	0	0
Ethane	0	—	0	6,772	1,880	—	0	0	0
Propane	0	0	0	7,512	1,407	35	0	0	0
Normal Butane	0	1	0	3,241	558	6	0	0	0
Isobutane	0	47	0	1,254	325	5	0	0	0
Natural Gasoline	0	—	0	2,843	673	—	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	—
Normal Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	0	0	0	—	0	0	—
Motor Gasoline Blending Components	0	3,507	0	264	0	1,131	0	0	0
Reformulated - RBOB	—	1,954	0	0	0	0	0	0	—
Conventional	0	1,553	0	264	0	1,131	0	0	0
CBOB	0	1,553	0	264	0	1,131	0	0	0
GTAB	—	—	0	—	0	—	0	0	—
Other	—	—	0	0	0	—	0	0	—
Biofuels (including Fuel Ethanol)	0	1,352	0	0	0	52	0	0	3
Fuel Ethanol	0	590	0	0	0	52	0	0	0
Biodiesel	0	57	0	0	0	0	0	0	3
Renewable Diesel Fuel	—	704	—	—	0	0	—	0	—
Other Biofuels ²	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	385	0	81	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	385	0	81	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	385	0	81	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	—
Kerosene-Type Jet Fuel	0	288	0	10	0	34	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	0	651	0	427	0	267	0	0	0
15 ppm sulfur and under	0	651	0	427	0	267	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	0	0	0	—	0	0	—
Greater than 500 ppm sulfur	—	—	0	—	0	—	0	0	—
Residual Fuel Oil	—	—	0	0	0	—	0	0	—
Petrochemical Feedstocks	—	—	—	0	0	—	—	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	—
Other Oils for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	—
Special Naphthas	—	—	—	0	0	—	—	0	—
Lubricants	—	—	0	0	0	—	0	0	—
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	6	0	177	87	129	0	26	29
Asphalt and Road Oil	2	112	0	141	119	200	0	0	8
Miscellaneous Products	—	—	—	—	—	—	—	—	—
Total	2	5,964	0	48,553	6,102	1,940	0	26	40

— = No Data Reported.

¹ Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil include movements by rail. Movements of other products are by pipeline, tanker and barge only.

² Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail net movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, August 2022
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil	185	23	178	51,731	6,195	120	23,144	0	-
Petroleum Products	16,734	0	8,549	39,724	14,911	81,592	21,106	0	4,446
Natural Gas Liquids	7,299	0	6,326	37,775	11,446	1,148	11,870	0	-
Ethane	5,724	0	57	17,675	3,400	0	1,315	0	-
Propane	927	0	4,615	10,962	4,063	1,148	1,889	0	-
Normal Butane	119	0	1,654	4,066	1,825	0	502	0	-
Isobutane	276	0	0	1,435	633	0	671	0	-
Natural Gasoline	253	0	0	3,637	1,525	0	7,493	0	-
Motor Gasoline Blending Components	6,168	0	650	1,161	1,765	47,165	4,270	0	3,507
Reformulated - RBOB	0	0	0	0	-	10,888	1,799	-	1,954
Conventional	6,168	0	650	1,161	1,765	36,277	2,471	0	1,553
CBOB	6,168	0	650	1,161	1,765	35,591	2,471	0	1,553
GTAB	-	-	-	-	-	-	-	-	-
Other	-	0	0	0	-	686	-	-	-
Biofuels (including Fuel Ethanol)	-	-	-	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-	-	-	-
Biodiesel	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel	-	-	-	-	-	-	-	-	-
Other Biofuels ¹	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	106	0	726	0	105	340	1,220	0	0
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	106	0	726	0	105	340	1,220	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	106	0	726	0	105	340	1,220	0	0
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	375	0	75	30	735	12,276	1,047	0	288
Kerosene	-	-	-	-	-	-	-	-	-
Distillate Fuel Oil	2,786	0	772	758	860	20,663	2,699	0	651
15 ppm sulfur and under	2,786	0	772	758	860	19,861	2,624	0	651
Greater than 15 ppm to 500 ppm sulfur	0	0	0	0	-	1	75	-	-
Greater than 500 ppm sulfur	-	-	-	-	-	-	-	-	-
Residual Fuel Oil	-	-	-	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total	16,919	23	8,727	91,455	21,106	81,712	44,250	0	4,446

See footnotes at end of table.

Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, August 2022
(Thousand Barrels) — Continued

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil	0	25,527	276	-	0	0
Petroleum Products	0	22,708	4,843	1,513	0	0
Natural Gas Liquids	0	21,622	4,843	-	0	0
Ethane	0	6,772	1,880	-	0	0
Propane	0	7,512	1,407	-	0	0
Normal Butane	0	3,241	558	-	0	0
Isobutane	0	1,254	325	-	0	0
Natural Gasoline	0	2,843	673	-	0	0
Motor Gasoline Blending Components	0	264	0	1,131	0	0
Reformulated - RBOB	0	0	0	0	0	-
Conventional	0	264	0	1,131	0	0
CBOB	0	264	0	1,131	0	0
GTAB	-	-	-	-	-	-
Other	0	-	0	-	0	-
Biofuels (including Fuel Ethanol)	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-
Biodiesel	-	-	-	-	-	-
Renewable Diesel Fuel	-	-	-	-	-	-
Other Biofuels ¹	-	-	-	-	-	-
Finished Motor Gasoline	0	385	0	81	0	0
Reformulated	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-
Conventional	0	385	0	81	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Conventional Other	0	385	0	81	0	0
Finished Aviation Gasoline	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	10	0	34	0	0
Kerosene	-	-	-	-	-	-
Distillate Fuel Oil	0	427	0	267	0	0
15 ppm sulfur and under	0	427	0	267	0	0
Greater than 15 ppm to 500 ppm sulfur	0	0	0	-	0	-
Greater than 500 ppm sulfur	-	-	-	-	-	-
Residual Fuel Oil	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-
Total	0	48,235	5,119	1,513	0	0

-- = Not Applicable.

- = No Data Reported.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report."

Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, August 2022
(Thousand Barrels)

Commodity	From 1 to			From 2 to		
	2	3	5	1	3	5
Crude Oil	178	0	-	358	0	-
Petroleum Products	41	0	0	1,587	3,595	0
Natural Gas Liquids	-	0	-	0	0	-
Ethane	-	-	-	-	-	-
Propane	-	0	-	0	0	-
Normal Butane	-	-	-	-	-	-
Isobutane	-	-	-	-	-	-
Natural Gasoline	-	-	-	-	-	-
Unfinished Oils	41	0	-	0	1,303	-
Motor Gasoline Blending Components	0	0	-	817	404	-
Reformulated - RBOB	-	0	-	0	0	-
Conventional	0	0	-	817	404	-
CBOB	0	0	-	817	102	-
GTAB	-	0	-	0	0	-
Other	0	0	-	0	302	-
Biofuels (including Fuel Ethanol)	0	0	0	156	718	0
Fuel Ethanol	0	0	-	156	697	-
Biodiesel	0	0	-	-	21	-
Renewable Diesel Fuel	-	0	0	-	0	0
Other Biofuels ¹	-	-	-	-	-	-
Finished Motor Gasoline	0	0	-	46	6	-
Reformulated	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-
Conventional	0	0	-	46	6	-
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Conventional Other	0	0	-	46	6	-
Finished Aviation Gasoline	0	0	-	0	0	-
Kerosene-Type Jet Fuel	-	0	-	0	0	-
Kerosene	-	-	-	-	-	-
Distillate Fuel Oil	0	0	-	465	32	-
15 ppm sulfur and under	0	0	-	465	32	-
Greater than 15 ppm to 500 ppm sulfur	-	-	-	-	-	-
Greater than 500 ppm sulfur	-	-	-	-	-	-
Residual Fuel Oil	0	0	-	0	874	-
Less than 0.31 percent sulfur	0	0	-	0	105	-
0.31 to 1.00 percent sulfur	0	0	-	-	304	-
Greater than 1.00 percent sulfur	0	0	-	-	465	-
Petrochemical Feedstocks	0	0	-	-	71	-
Naphtha for Petrochemical Feedstock Use	0	0	-	-	48	-
Other Oils for Petrochemical Feedstock Use	0	0	-	-	23	-
Special Naphthas	0	0	-	-	100	-
Lubricants	0	0	-	0	23	-
Waxes	-	-	-	-	-	-
Marketable Petroleum Coke	-	-	-	-	-	-
Asphalt and Road Oil	0	0	-	103	64	-
Miscellaneous Products	-	-	-	-	-	-
Total	219	0	0	1,945	3,595	0

See footnotes at end of table.

Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, August 2022
(Thousand Barrels) — Continued

Commodity	From 3 to						From 5 to		
	1	New England	Central Atlantic	Lower Atlantic	2	5	1	2	3
Crude Oil	1,576	—	1,576	—	0	—	0	0	0
Petroleum Products	20,124	302	583	19,239	1,554	704	0	0	0
Natural Gas Liquids	53	—	—	53	—	—	0	—	0
Ethane	—	—	—	—	—	—	—	—	—
Propane	53	—	—	53	—	—	0	—	0
Normal Butane	—	—	—	—	—	—	—	—	—
Isobutane	—	—	—	—	—	—	—	—	—
Natural Gasoline	—	—	—	—	—	—	—	—	—
Unfinished Oils	83	—	12	71	513	—	0	0	0
Motor Gasoline Blending Components	11,710	302	316	11,092	198	—	0	0	0
Reformulated - RBOB	316	—	316	—	—	—	0	—	0
Conventional	11,394	302	—	11,092	198	—	0	0	0
CBOB	11,012	—	—	11,012	0	—	0	0	0
GTAB	80	—	—	80	—	—	0	—	0
Other	302	302	—	—	198	—	0	0	0
Biofuels (including Fuel Ethanol)	37	—	—	37	0	704	0	0	0
Fuel Ethanol	37	—	—	37	0	—	0	0	0
Biodiesel	—	—	—	—	0	—	—	0	0
Renewable Diesel Fuel	—	—	—	—	—	704	—	—	0
Other Biofuels ¹	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	998	—	—	998	173	—	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	998	—	—	998	173	—	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	998	—	—	998	173	—	0	0	0
Finished Aviation Gasoline	41	—	—	41	50	—	0	0	0
Kerosene-Type Jet Fuel	3,449	—	—	3,449	—	—	0	—	0
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	3,012	—	—	3,012	122	—	0	0	0
15 ppm sulfur and under	3,012	—	—	3,012	122	—	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	—	—	—	—	—	—	—
Greater than 500 ppm sulfur	—	—	—	—	—	—	—	—	—
Residual Fuel Oil	93	—	—	93	0	—	0	0	0
Less than 0.31 percent sulfur	93	—	—	93	0	—	0	0	0
0.31 to 1.00 percent sulfur	—	—	—	—	0	—	—	0	0
Greater than 1.00 percent sulfur	—	—	—	—	0	—	—	0	0
Petrochemical Feedstocks	—	—	—	—	0	—	—	0	0
Naphtha for Petrochemical Feedstock Use	—	—	—	—	0	—	—	0	0
Other Oils for Petrochemical Feedstock Use	—	—	—	—	0	—	—	0	0
Special Naphthas	—	—	—	—	37	—	—	0	0
Lubricants	441	—	255	186	220	—	0	0	0
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	207	—	—	207	241	—	0	0	0
Miscellaneous Products	—	—	—	—	—	—	—	—	—
Total	21,700	302	2,159	19,239	1,554	704	0	0	0

— = No Data Reported.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Sources: Energy Information Administration (EIA) Form EIA-817, "Monthly Tanker and Barge Movements Report."

Table 60. Movements of Crude Oil and Selected Products by Rail Between PAD Districts, August 2022
(Thousand Barrels)

Commodity	From 1 to				From 2 to			
	2	3	4	5	1	3	4	5
Crude Oil	0	0	0	0	695	13	0	2,190
Propane	34	42	0	0	836	462	0	252
Propylene	0	0	-	-	411	619	-	-
Normal Butane	135	1	0	0	320	179	0	280
Isobutane	70	23	0	0	114	107	0	65
Fuel Ethanol	0	0	0	0	8,974	4,703	441	4,459
Biodiesel	0	0	0	0	66	120	18	244
Marketable Petroleum Coke	0	12	0	0	503	975	13	29
Asphalt and Road Oil	0	0	0	0	664	263	3	105

Commodity	From 3 to				From 4 to			
	1	2	4	5	1	2	3	5
Crude Oil	0	0	0	0	0	0	778	0
Propane	61	26	0	0	0	0	0	35
Propylene	0	0	-	-	0	0	0	-
Normal Butane	0	1	0	1	0	0	0	6
Isobutane	0	124	0	47	0	0	0	5
Fuel Ethanol	0	0	0	590	0	0	0	52
Biodiesel	0	33	0	57	0	0	0	0
Marketable Petroleum Coke	6	19	0	6	0	177	87	129
Asphalt and Road Oil	107	67	2	112	0	141	119	200

Commodity	From 5 to			
	1	2	3	4
Crude Oil	0	0	0	0
Propane	0	0	0	0
Propylene	0	0	0	-
Normal Butane	0	0	0	0
Isobutane	0	0	0	0
Fuel Ethanol	0	0	0	0
Biodiesel	0	0	0	3
Marketable Petroleum Coke	0	16	26	29
Asphalt and Road Oil	0	0	0	8

- = No Data Reported.

Source: Rail Movements are estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 61. Movements of Crude Oil by Pipeline, Tanker, Barge and Rail between PAD Districts, August 2022
(Thousand Barrels)

PADD	Pipeline	Tanker and Barge	Rail	Total
From 1 to				
2	185	178	0	363
3	23	0	0	23
4	0	-	0	0
5	-	-	0	0
From 2 to				
1	178	358	695	1,231
3	51,731	0	13	51,744
4	6,195	-	0	6,195
5	-	-	2,190	2,190
From 3 to				
1	120	1,576	0	1,696
2	23,144	0	0	23,144
4	0	-	0	0
5	-	-	0	0
From 4 to				
1	0	0	0	0
2	25,527	0	0	25,527
3	276	0	778	1,054
5	-	-	0	0
From 5 to				
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	-	0	0

- = No Data Reported.

Sources: Energy Information Administration (EIA) Forms EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail ¹ Between PAD Districts, August 2022
(Thousand Barrels)

Commodity	PAD District 1			PAD District 2			PAD District 3		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	2,927	386	2,541	49,034	61,360	-12,326	52,821	24,840	27,981
Petroleum Products	123,914	17,092	106,822	62,987	93,590	-30,603	55,899	130,788	-74,888
Natural Gas Liquids	8,858	7,604	1,254	41,181	58,162	-16,981	43,432	13,331	30,101
Ethane	57	5,724	-5,667	13,811	21,132	-7,321	19,555	1,315	18,240
Propane	6,713	1,003	5,710	10,388	21,190	-10,802	12,873	3,177	9,696
Normal Butane	1,974	255	1,719	3,998	8,324	-4,326	4,804	504	4,300
Isobutane	114	369	-255	2,395	2,354	41	1,890	842	1,048
Natural Gasoline	0	253	-253	10,589	5,162	5,427	4,310	7,493	-3,183
Refinery Olefins	411	0	411	0	1,030	-1,030	619	0	619
Ethylene	0	0	-	-	-	-	0	0	-
Propylene	411	0	411	0	1,030	-1,030	619	0	619
Normal Butylene	0	0	-	0	0	-	0	0	-
Isobutylene	0	0	-	0	0	-	0	0	-
Unfinished Oils	83	41	42	554	1,303	-749	1,303	596	707
Motor Gasoline Blending Components	60,342	6,168	54,174	10,900	4,797	6,103	1,565	66,850	-65,285
Reformulated - RBOB	11,204	0	11,204	1,799	0	1,799	0	14,957	-14,957
Conventional	49,138	6,168	42,970	9,101	4,797	4,304	1,565	51,893	-50,328
CBOB	48,070	6,168	41,902	8,903	4,495	4,408	1,263	50,627	-49,364
GTAB	80	0	80	-	-	-	0	80	-80
Other	988	0	988	198	302	-104	302	1,186	-884
Biofuels (including Fuel Ethanol)	9,233	0	9,233	33	19,898	-19,865	5,541	1,422	4,119
Fuel Ethanol	9,167	0	9,167	0	19,430	-19,430	5,400	627	4,773
Biodiesel	66	0	66	33	468	-435	141	91	50
Renewable Diesel Fuel	-	-	-	0	0	-	0	704	-704
Other Biofuels ²	-	-	-	0	0	-	0	0	-
Finished Motor Gasoline	2,110	106	2,004	1,884	883	1,001	6	2,731	-2,725
Reformulated	0	0	-	0	0	-	0	0	-
Reformulated Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Reformulated Other	0	0	-	0	0	-	0	0	-
Conventional	2,110	106	2,004	1,884	883	1,001	6	2,731	-2,725
Conventional Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Ed55 and Lower	0	0	-	0	0	-	0	0	-
Greater than Ed55	0	0	-	0	0	-	0	0	-
Conventional Other	2,110	106	2,004	1,884	883	1,001	6	2,731	-2,725
Finished Aviation Gasoline	41	0	41	50	0	50	0	91	-91
Kerosene-Type Jet Fuel	15,800	375	15,425	1,432	840	592	30	17,060	-17,030
Kerosene	0	0	-	0	0	-	0	0	-
Distillate Fuel Oil	24,912	2,786	22,126	6,034	2,887	3,147	790	27,147	-26,357
15 ppm sulfur and under	24,110	2,786	21,324	5,959	2,887	3,072	790	26,270	-25,480
Greater than 15 ppm to 500 ppm sulfur	1	0	1	75	0	75	0	76	-76
Greater than 500 ppm sulfur	801	0	801	0	0	-	0	801	-801
Residual Fuel Oil	93	0	93	0	874	-874	874	93	781
Petrochemical Feedstocks	0	0	-	0	71	-71	71	0	71
Naphtha for Petrochemical Feedstock Use	0	0	-	0	48	-48	48	0	48
Other Oils for Petrochemical Feedstock Use	0	0	-	0	23	-23	23	0	23
Special Naphthas	0	0	-	37	100	-63	100	37	63
Lubricants	441	0	441	220	23	197	23	661	-638
Waxes	0	0	-	0	0	-	0	0	-
Marketable Petroleum Coke	509	12	498	213	1,520	-1,307	1,100	32	1,067
Asphalt and Road Oil	1,081	0	1,081	449	1,202	-753	446	736	-291
Miscellaneous Products	0	0	-	0	0	-	0	0	-
Total	126,841	17,478	109,363	112,021	154,950	-42,929	108,720	155,628	-46,907

See footnotes at end of table.

Table 62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail ¹ Between PAD Districts, August 2022
(Thousand Barrels) — Continued

Commodity	PAD District 4			PAD District 5		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	6,195	26,581	-20,386	2,190	0	2,190
Petroleum Products	15,428	30,015	-14,587	13,338	82	13,256
Natural Gas Liquids	11,446	26,511	-15,065	691	0	691
Ethane	3,400	8,652	-5,252	0	0	-
Propane	4,063	8,954	-4,891	287	0	287
Normal Butane	1,825	3,805	-1,980	287	0	287
Isobutane	633	1,584	-951	117	0	117
Natural Gasoline	1,525	3,516	-1,991	0	0	-
Refinery Olefins	0	0	-	0	0	-
Ethylene	-	-	-	-	-	-
Propylene	0	0	-	0	0	-
Normal Butylene	0	0	-	0	0	-
Isobutylene	0	0	-	0	0	-
Unfinished Oils	0	0	-	0	0	-
Motor Gasoline Blending Components	1,765	1,395	370	4,638	0	4,638
Reformulated - RBOB	-	-	-	1,954	0	1,954
Conventional	1,765	1,395	370	2,684	0	2,684
CBOB	1,765	1,395	370	2,684	0	2,684
GTAB	-	-	-	-	-	-
Other	0	0	-	0	0	-
Biofuels (including Fuel Ethanol)	462	52	410	6,107	3	6,104
Fuel Ethanol	441	52	389	5,101	0	5,101
Biodiesel	21	0	21	302	3	298
Renewable Diesel Fuel	0	0	-	704	0	704
Other Biofuels ²	0	0	-	0	0	-
Finished Motor Gasoline	105	466	-361	81	0	81
Reformulated	0	0	-	0	0	-
Reformulated Blended with Fuel Ethanol	0	0	-	0	0	-
Reformulated Other	-	-	-	-	-	-
Conventional	105	466	-361	81	0	81
Conventional Blended with Fuel Ethanol	0	0	-	0	0	-
Ed55 and Lower	0	0	-	0	0	-
Greater than Ed55	0	0	-	0	0	-
Conventional Other	105	466	-361	81	0	81
Finished Aviation Gasoline	0	0	-	0	0	-
Kerosene-Type Jet Fuel	735	44	691	322	0	322
Kerosene	0	0	-	0	0	-
Distillate Fuel Oil	860	694	166	918	0	918
15 ppm sulfur and under	860	694	166	918	0	918
Greater than 15 ppm to 500 ppm sulfur	0	0	-	0	0	-
Greater than 500 ppm sulfur	0	0	-	0	0	-
Residual Fuel Oil	0	0	-	0	0	-
Petrochemical Feedstocks	-	-	-	0	0	-
Naphtha for Petrochemical Feedstock Use	-	-	-	0	0	-
Other Oils for Petrochemical Feedstock Use	-	-	-	-	-	-
Special Naphthas	-	-	-	0	0	-
Lubricants	0	0	-	0	0	-
Waxes	0	0	-	0	0	-
Marketable Petroleum Coke	42	393	-351	165	72	93
Asphalt and Road Oil	13	459	-447	417	8	409
Miscellaneous Products	0	0	-	0	0	-
Total	21,623	56,595	-34,972	15,528	82	15,446

- = No Data Reported.

¹ Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil include movements by rail. Movements of other products are by pipeline, tanker and barge only.

² Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail net movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Appendix A

District Descriptions and Maps

The following are the Refining Districts which make up the Petroleum Administration for Defense (PAD) Districts.

PAD District I

East Coast: The District of Columbia and the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New Jersey, Delaware, Maryland, Virginia, North Carolina, South Carolina, Georgia, Florida, and the following counties of the State of New York: Cayuga, Tompkins, Chemung, and all counties east and north thereof. Also the following counties in the State of Pennsylvania: Bradford, Sullivan, Columbia, Montour, Northumberland, Dauphin, York, and all counties east thereof.

Appalachian No. 1: The State of West Virginia and those parts of the States of Pennsylvania and New York not included in the East Coast District.

Sub-PAD District I

New England: The States of Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

Central Atlantic: The District of Columbia and the States of Delaware, Maryland, New Jersey, New York, and Pennsylvania.

Lower Atlantic: The States of Florida, Georgia, North Carolina, South Carolina, Virginia and West Virginia.

PAD District II

Indiana-Illinois-Kentucky: The States of Indiana, Illinois, Kentucky, Tennessee, Michigan, and Ohio.

Minnesota-Wisconsin-North and South Dakota: The States of Minnesota, Wisconsin, North Dakota, and South Dakota.

Oklahoma-Kansas-Missouri: The States of Oklahoma, Kansas, Missouri, Nebraska, and Iowa.

PAD District III

Texas Inland: The State of Texas except the Texas Gulf Coast District.

Texas Gulf Coast: The following counties of the State of Texas: Newton, Orange, Jefferson, Jasper, Tyler, Hardin, Liberty, Chambers, Polk, San Jacinto, Montgomery, Harris, Galveston, Waller, Fort Bend, Brazoria, Wharton, Matagorda, Jackson, Victoria, Calhoun, Refugio, Aransas, San Patricio, Nueces, Kleberg, Kenedy, Willacy, and Cameron.

Louisiana Gulf Coast: The following Parishes of the State of Louisiana: Vernon, Rapides, Avoyelles, Pointe Coupee, West Feliciana, East Feliciana, Saint Helena, Tangipahoa, Washington, and all Parishes south thereof. Also the following counties of the State of Mississippi: Pearl River, Stone, George, Hancock, Harrison, and Jackson. Also the following counties of the State of Alabama: Mobile and Baldwin.

North Louisiana-Arkansas: The State of Arkansas and those parts of the States of Louisiana, Mississippi, and Alabama not included in the Louisiana Gulf Coast District.

New Mexico: The State of New Mexico.

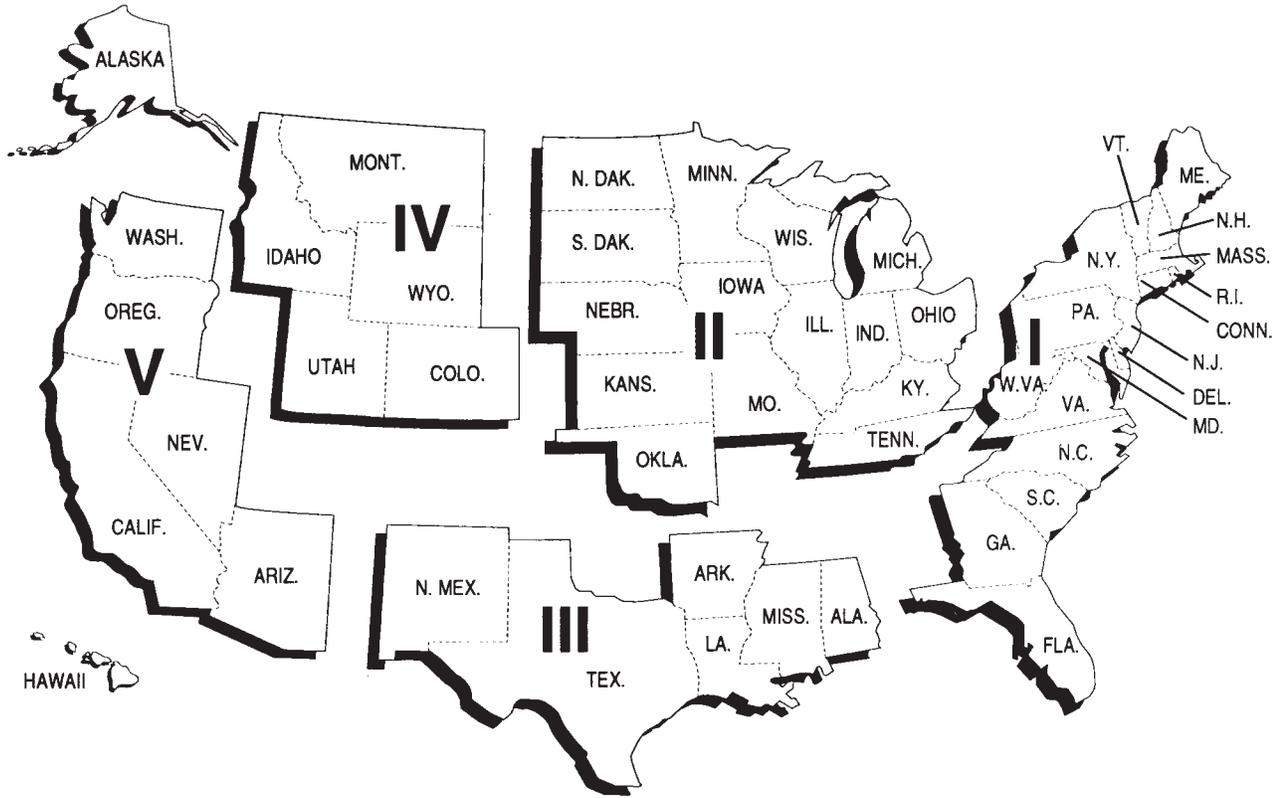
PAD District IV

Rocky Mountain: The States of Montana, Idaho, Wyoming, Utah, and Colorado.

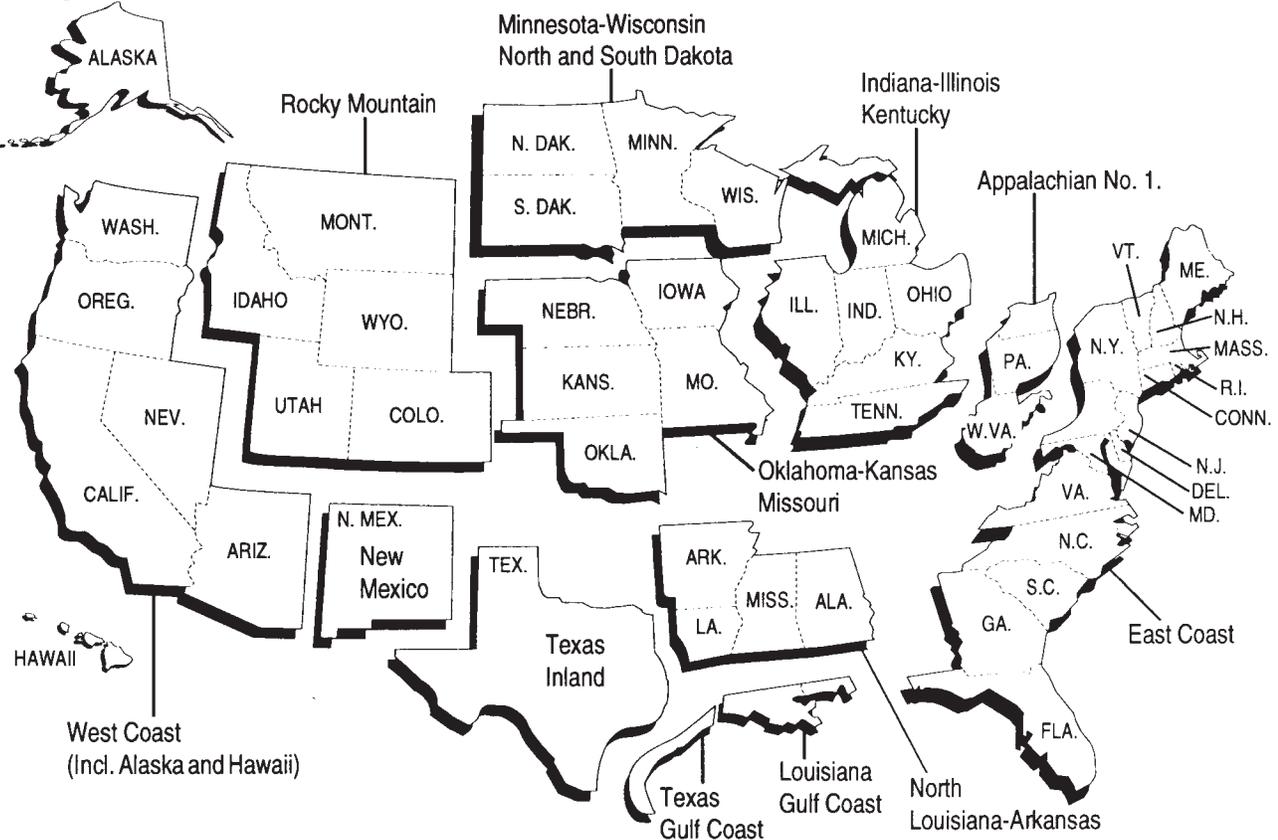
PAD District V

West Coast: The States of Washington, Oregon, California, Nevada, Arizona, Alaska, and Hawaii.

Petroleum Administration for Defense (PAD) Districts



Refining Districts



Appendix B. Explanatory Notes

Preface

The *Petroleum Supply Monthly* (PSM) and *Petroleum Supply Annual* (PSA) are reports produced by the Monthly Petroleum Supply Reporting System (MPSRS) operated by the U.S. Energy Information Administration (EIA). The PSM and PSA track supply and disposition of crude oil, hydrocarbon gas liquids, petroleum products, and biofuels.

Data presented in the PSM and PSA describe supply and disposition of crude oil, hydrocarbon gas liquids, petroleum products, and biofuels in the United States, and major U.S. geographic regions with selected data available at the state level. Data describe production, imports, exports, inter-Petroleum Administration for Defense District (PADD) movements, and inventories in the United States (50 States and the District of Columbia). The reporting universe includes operators engaged in primary supply activities including refining, motor gasoline blending, natural gas processing and fractionation, inter-PADD transportation, importers, and major inventory holders. When aggregated, data reported by operators in these sectors are used to derive consumption of petroleum products in the United States.

Monthly and year-to-date data are normally released in the PSM on the last business day of each month. Monthly data are available approximately 60 days after the end of each reference month. Revised monthly data and annual totals and averages are released in the PSA usually at the end of August each year.

Overview

A. The Energy Information Administration's Quality Guidelines

Data contained in the *Petroleum Supply Monthly* (PSM) and *Petroleum Supply Annual* (PSA) are subject to information quality guidelines issued by the Office of Management and Budget (OMB), the Department of Energy (DOE), and Energy Information Administration (EIA). With available resources, EIA continually works to improve its systems in order to provide high quality information needed by public and private policymakers and decision makers. EIA has performance standards to ensure the quality (i.e., objectivity, utility, and integrity) of information it disseminates to the public. Quality is ensured and maximized at levels appropriate to the nature and timeliness of the disseminated information.

B. Concepts of Product Supply and Demand

Petroleum supply estimates contained in the PSM and PSA are used for calculation of petroleum demand measured as product supplied. Product supplied is often called "implied" demand because it is a measure of demand that is implied by disappearance of petroleum product barrels from facilities and activities in the "primary" supply chain. Facilities and activities in the primary supply chain include refineries, bulk storage and blending terminals, natural gas processing plants and fractionators, biofuels and oxygenate production plants, imports, exports, and transportation by pipelines, tankers, barges, and railroads. Total product supplied at the U.S. level is equal to the sum of field production (including production of crude oil and natural gas liquids from natural gas processing plants), refinery and blender net production, biofuels plant net production, imports, and adjustments, minus the sum of stock change, refinery and blender net inputs, and exports. Net receipts are added to supply when product supplied is calculated for Petroleum Administration for Defense Districts (PADD). Crude oil product supplied is zero after September 1997 because crude oil is processed in refineries to produce fuels and other products rather than being used directly as fuel. Data include crude oil used directly as fuel between January 1981 and September 1997.

The secondary supply chain falls between primary supply and end-users. Product barrels typically flow in bulk quantities from primary supply into secondary supply before delivery to consumers. Fuels and other products held by consumers are considered to be in tertiary supply. Secondary supply facilities and activities include storage at bulk plants and retail outlets. Bulk plants are wholesale storage facilities that have less than 50,000 barrels of storage capacity and, as defined by EIA, receive product only by rail or truck, but not by barge, tanker, or pipeline. Tertiary inventories are held by end users and include fuel in vehicle tanks, heating oil in residential tanks, fuel oil held by utilities, fuel and nonfuel products held by end users, and certain proprietary storage of raw materials such as propane held at chemical plants for use as ethylene feedstock. EIA includes tertiary stocks of natural gas liquids (ethane, propane, normal butane, isobutane, and natural gasoline) held by storage operators with at least 50,000 barrels of storage capacity and capability to ship barrels by pipeline, tanker, or barge in primary stocks.

There is a delay between the time when barrels are reported as demand measured as product supplied and when the same barrels are actually consumed. The delay is due to the time required for barrels to move from primary supply through secondary and tertiary supply chains and ultimately to end users where the barrels are actually consumed as fuel, feedstock, or for other purposes. Users of demand measured as product supplied should expect product supplied to either anticipate or lag timing of actual petroleum consumption.

C. Components of Supply and Disposition

The detailed statistics tables in the *PSM* provide complete supply and disposition information for the current month and year to date. The tables are organized to locate national and PADD supply and disposition data at the front followed by tables that contain detailed information on supply and disposition. These include tables on crude oil and petroleum product production, import/export data, stocks information, and lastly, data on crude oil and petroleum product movements. EIA provides the following discussion to assist with interpretation of supply and disposition tables 1-25. The [EIA glossary](#) contains definitions of products and other terms used on tables.

(1.) Supply

a. Field Production - Total Field Production is the sum of crude oil production and natural gas liquids production (NGL) from natural gas processing plants.

Sources of crude oil production data include state government agencies, Department of the Interior, Bureau of Safety and Environmental Enforcement (and predecessor agencies), first purchase data reported on Form EIA-182, "Domestic Crude Oil First Purchase Report", and Form EIA-914 "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report. Refer to "Domestic Crude Oil Production" in Section 2C(1) for further details.

Field production of NGL is reported on Form EIA-816 and published on a net basis (i.e., production minus inputs).

b. Biofuels Plant Net Production – biofuels production included fuel ethanol beginning with data for January 2009, biodiesel beginning with data for January 2011, and biofuels (diesel, heating oil, jet, naphtha, gasoline, and other biofuels and biointermediates) beginning with data for January 2021. EIA included production of fuel oxygenates (ethyl tertiary butyl ether (ETBE), methyl tertiary butyl ether (MTBE), and other fuel oxygenates) as a component of the petroleum balance from January 2009 until December 2018. This supply category also includes net production of non-bio fuel products, including petroleum-derived gasoline, distillate fuel oil, jet fuel, and kerosene and natural gas liquids, blended with biofuels as denaturants or for other purposes at biofuel producing plants. Negative production indicates the amount of a product produced during the month was less than the amount of that same product reported as input during the same month.

c. Refinery and Blender Net Production – Refinery and Blender Net Production is reported on Forms EIA-810 and EIA-815. Refinery and Blender Net Production equals refinery and blenders production minus refinery and blender inputs. Negative production of finished petroleum products will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month.

d. Imports - Imports include receipts of goods into the 50 States and the District of Columbia from U.S. possessions and territories from foreign countries.

e. Net Receipts – Net Receipts data are included in tables containing PAD District-level data to account for inter-PAD District movements of crude oil and petroleum products. Net receipts for a PAD District are calculated by subtracting shipments out of the PAD District from receipts into the PAD District. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, and Barge, and Rail between PAD Districts are shown in Table 62.

f. Adjustments – This column includes adjustment quantities for crude oil, fuel ethanol, motor gasoline blending components, hydrogen, and "other" hydrocarbons. EIA calculates adjustment quantities to balance supply and disposition or to reclassify one product to another product. EIA calculates product supplied as the balancing item for most products and a measure of implied demand for petroleum products. EIA uses adjustments as balance items in cases where it does not make sense to interpret the balancing item as demand. Reclassifications reported in the adjustments column may be implied by the supply and disposition balance or reported on surveys. Recall that supply at the U.S. level is equal to the sum of field production, biofuels plant net production, refinery and blender net production, imports, and adjustments. Disposition at the U.S. level is equal to the sum of stock change, refinery and blender net inputs, exports, and products supplied. At the PAD District level, supply components include net receipts equal to gross receipts from other PAD Districts minus gross shipments to other PAD Districts. In every case, supply must equal disposition. Applicable components of supply and disposition vary depending on the product or product group. Adjustment calculations that balance supply and disposition equal disposition minus supply for the U.S. and for each PAD District. EIA discontinued reporting adjustment quantities for non-fuel ethanol biofuels and distillate fuel oil beginning with data for January 2021. Beginning with data for January 2021, EIA uses product supplied as the balance quantity for biofuels excluding fuel ethanol.

(2.) Disposition

a. **Stock Change** – Stock Change is calculated as the difference between the current month Ending Stocks column and the Ending Stocks column in the prior month’s publication. A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.

b. **Refinery and Blender Net Inputs** – Refinery and Blender Net Inputs are inputs of crude oil and intermediate materials (unfinished oils, motor and aviation gasoline blending components, hydrocarbon gas liquids, hydrogen, biofuels, and other hydrocarbons) processed at refineries or blended at terminals to produce finished petroleum products.

Crude oil input represents total crude oil (domestic and foreign) input to atmospheric crude oil distillation units and other refinery processing units (e.g. vacuum distillation units).

Refinery and blender input of natural gas liquids equal gross input of natural gas liquids received from natural gas plants for blending and processing.

Inputs of unfinished oils, motor gasoline blending components, and aviation gasoline blending components are published on a net basis (i.e., refinery and blender input minus refinery and blender production). Negative inputs of unfinished oils and motor and aviation gasoline blending components will occur when the amount of a product produced during the month is greater than the amount of that same product that is input or reclassified to become another product during the same month.

c. **Exports** - Exports include shipments from the 50 States and the District of Columbia to Puerto Rico, the Virgin Islands, other U.S. possessions and territories and to foreign countries.

d. **Products Supplied** - Products supplied is a calculated measure of demand equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, (plus net receipts when calculated by PADD), plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Product supplied values indicate quantities of petroleum products supplied for domestic consumption. Occasionally, the result for a product is negative because total disposition of the product exceeds total supply. Negative product supplied may occur for a number of reasons: (1) product reclassification has not been reported; (2) data were misreported or reported late; (3) in the case of calculations on a PADD basis, the figure for net receipts was inaccurate because the coverage of inter-PADD movements was incomplete; and (4) products such as gasoline blending components and unfinished oils have entered the primary supply channels with their production not having been reported (e.g. unfinished oils received at refineries for processing from petrochemical plants).

EIA reported crude oil burned as fuel on leases and by pipelines as either distillate or residual fuel oil product supplied prior to January 1983. EIA reported crude oil product supplied equal to crude oil used directly as reported on Form EIA-813 “Monthly Crude Oil Report” from January 1983 through December 2009. EIA discontinued reporting crude oil used directly on Form EIA-813 after December 2009.

(3.) Ending Stocks

Ending stocks are primary stocks of crude oil and petroleum products held in storage as of midnight on the last day of each month. Primary stocks include crude oil, hydrocarbon gas liquids, biofuels, and petroleum products held in storage at refineries, natural gas processing plants, pipelines, tank farms, biofuel production plants, and bulk terminals. Ending stocks also include stocks in transit by rail, truck, and water reported at destination facilities. EIA primary stocks include NGL (ethane, propane, normal butane, isobutane, and natural gasoline) held by end-user storage operators (i.e. tertiary storage) with at least 50,000 barrels of storage capacity and capability to ship barrels by pipeline, tanker.

Crude oil that is in-transit by water from Alaska and crude oil stored in the Strategic Petroleum Reserve is included. Primary Stocks exclude stocks of foreign origin that are held in bonded warehouse storage. Primary stocks of petroleum products also exclude secondary stocks held by dealers and jobbers and tertiary stocks (except stocks of NGL held by end users with storage capacity of at least 50,000 barrels and capability to ship NGL by pipeline, tanker, or barge) held by consumers. EIA excludes product stocks held as reserves by federal and state agencies are excluded from primary stock quantities reported in the PSM and PSA, but EIA provides stock quantities held in selected government reserves in Appendix D.

Primary stocks of crude oil included barrels held on crude oil producing sites (lease stocks) until June 2016. Primary stocks of crude oil excluded lease stocks beginning with release of PSM data for July 2016 on September 30, 2016. Historical crude oil stocks in on eia.gov were revised beginning with data for January 2005 to exclude lease stocks. Data may be accessed from the following locations on the EIA web site.

http://www.eia.gov/dnav/pet/pet_sum_snd_d_nus_mbb1_m_cur.htm

http://www.eia.gov/dnav/pet/pet_sum_crdsnd_k_m.htm

http://www.eia.gov/dnav/pet/pet_stoc_typ_c_nus_EPC0_mbb1_m.htm

2. Components - Forms Discussions

The data presented in the *PSM* include data collected by the EIA on nine monthly petroleum supply surveys, export data obtained from the U. S. Bureau of the Census, and crude production data collected on Form EIA-914 as well as production data from State conservation agencies and the Minerals Management Service of the U. S. Department of Interior.

A. Petroleum Supply Reporting System

The nine monthly petroleum supply surveys are part of the Petroleum Supply Reporting System (PSRS). The PSRS tracks the supply and disposition of crude oil, petroleum products, and hydrocarbon gas liquids in the United States. The PSRS is organized into two data collection subsystems: the Weekly Petroleum Supply Reporting System (WPSRS) and the Monthly Petroleum Supply Reporting System (MPSRS). The WPSRS processes the data from the six weekly surveys. The MPSRS includes eight monthly surveys and one annual survey. The survey forms that comprise the PSRS are:

1. EIA-800, "Weekly Refinery and Fractionator Report,"
2. EIA-802, "Weekly Product Pipeline Report,"
3. EIA-803, "Weekly Crude Oil Stocks Report,"
4. EIA-804, "Weekly Imports Report,"
5. EIA-805, "Weekly Bulk Terminal Report,"
6. EIA-809, "Weekly Oxygenate Report,"
7. EIA-22M, "Monthly Biodiesel Production Survey," (discontinued effective with data for October 2020)
8. EIA-810, "Monthly Refinery Report,"
9. EIA-812, "Monthly Product Pipeline Report,"
10. EIA-813, "Monthly Crude Oil Report,"
11. EIA-814, "Monthly Imports Report,"
12. EIA-815, "Monthly Bulk Terminal Report."
13. EIA-816, "Monthly Natural Gas Liquids Report"
14. EIA-817, "Monthly Tanker and Barge Movement Report"
15. EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene" (formerly "Monthly Oxygenate Report")
16. EIA-820, "Annual Refinery Report."

EIA administers weekly and monthly surveys at six key points along the petroleum and biofuel supply chain including refineries, fractionators, natural gas processing plants, bulk products storage and blending terminals, crude oil and product pipelines, crude oil stock holders, importers, and plants producing biofuels and fuel oxygenates. EIA also collects inter-PADD movements by pipelines, tankers, and barges using monthly surveys. Weekly surveys do not capture petroleum movements. EIA selects a sample of operators reporting on monthly surveys to also report

on weekly surveys.

Annual U.S. refinery capacity data are collected on the Form EIA-820, "Annual Refinery Report." The EIA-820 data are published in the annual "Refinery Capacity Report."

B. Monthly Supply Survey Description and Methodology

(1.) Description of Surveys Forms

Copies of the survey forms and instructions can be found at:

<https://www.eia.gov/survey/>

Form EIA-22M "Monthly Biodiesel Production Survey" collected data on biodiesel plant location, operating status, annual production capacity, monthly biodiesel and co-product production, stocks, input of feedstocks, alcohol, and catalysts, and biodiesel sales until data for September 2020. EIA discontinued Form EIA-22M effective with data for October 2020, and incorporated data previously collected on Form EIA-22M into Form EIA-819 "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene."

Form EIA-810, "Monthly Refinery Report," collects data on refinery input and capacity, sulfur content and API gravity of crude oil, and data on supply (beginning stocks, receipts, and production) and disposition (inputs, shipments, fuel use and losses, and ending stocks) of crude oil and refined products. Working and shell storage capacity for selected products is collected on an annual basis.

Form EIA-812, "Monthly Product Pipeline Report," collects data on end-of-month stocks and movements of petroleum products transported by pipeline. Intermediate movements for pipeline systems operating in more than two PADD Districts are included.

Form EIA-813, "Monthly Crude Oil Report," collects data on end-of-month stock levels of crude oil held in pipelines, and at tank farms operated by the reporting company, and Alaskan crude oil in transit by water. Data are reported by PADD including stocks held in the 50 states and the District of Columbia. In addition to stocks, EIA uses Form EIA-813 to collect inter-PADD movements of crude oil by pipeline. EIA collects movements for shipping and receiving PADDs with no intermediate PADD movements. EIA uses Form EIA-813 to collect annual storage capacity in data for the month of March.

Form EIA-814, "Monthly Imports Report," collects data on imports of crude oil and petroleum products (1) into the 50 States and the District of Columbia, (2) into Puerto Rico, the Virgin Islands, and other U.S. possessions (Guam, Midway Islands, Wake Island, American Samoa, and Northern Mariana Islands), and (3) from Puerto Rico, the Virgin Islands, and other U.S. possessions into the 50 States and the District of Columbia. Imports into Foreign Trade Zones located in the 50 States and the District of Columbia are considered imports into the 50 States and the District of Columbia. The type of commodity, port of entry, country of origin, quantity (thousand barrels), sulfur percent by weight, API gravity, and name and location of the processing or storage facility are reported. Sulfur percent by weight is requested for crude oil, crude oil burned as fuel, and residual fuel oil only. API gravity is requested for crude oil only. The name and location of the processing or storage facility is requested for crude oil and unfinished oils only.

Form EIA-815, "Monthly Bulk Terminal Report," collects data on the operations of all bulk terminals located in the 50 States, District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U.S. possessions. Beginning and end-of-month stocks, receipts, inputs, production, shipments, and fuel use and losses during the month are collected from operators of terminals. Working and shell storage capacity is collected on an annual basis.

Form EIA-816, "Monthly Natural Gas Liquids Report," collects data on the operations of natural gas processing plants and fractionators. Beginning and end-of-month stocks, receipts, inputs, production, shipments, and plant fuel use and losses during the month are collected from operators of natural gas processing plants. End-of-month stocks are collected from fractionators.

Form EIA-817, “Monthly Tanker and Barge Movement Report,” collects data on the movements of crude oil and petroleum products between PAD Districts. Data are reported by shipping and receiving PAD District and sub-PAD District. Shipments to and from the Panama Canal are also included if the shipment was delivered to the Canal.

Form EIA-819, “Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane and Isooctene” collects facility-level data on oxygenate inputs, production, gasoline blending at ethanol plants, and end-of-month stocks. Beginning in October 2020 it also collects facility-level data on biodiesel and biofuels production and blending and end-of-month stocks. Plant operators report end-of-month stocks on site on a custody basis regardless of ownership as well as stocks in transit by rail, truck, and water to their plants.

(2.) Frame

EIA maintains complete lists of respondents to its monthly surveys. Each survey has a list of companies and facilities required to submit petroleum activity data. This list is known as the survey frame. Frame maintenance procedures are used to monitor the status of petroleum companies and facilities currently contained in each survey frame as well as to identify new members to be added to the frame. As a result, all known petroleum supply organizations falling within the definition of “Who Must Submit” participate in the survey.

The activities for frames maintenance are conducted on an ongoing basis. Monthly frames maintenance procedures focus on examining industry periodicals that report changes in status (births, deaths, sales, mergers, and acquisitions) of petroleum facilities producing, transporting, importing, and/or storing crude oil and petroleum products. Augmenting these sources are articles in newspapers, notices from respondents, and information received from survey systems operated by other offices. Survey managers review these sources regularly to monitor changes in company operations and to develop lists of potential respondents. These activities assure coverage of the reporting universe and maintain accurate facility information on addresses and ownership.

Respondents to Form EIA-22M “Monthly Biodiesel Production Survey” included operators of plants that produce biodiesel meeting ASTM D 6751-07B specifications and used for commercial purposes. EIA discontinued using Form EIA-22M in October 2020 and replaced it with data collected on Form EIA-819 “Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene”.

Respondents to Form EIA-810, “Monthly Refinery Report” include operators of all operating and idle petroleum refineries located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam and other U.S. possessions.

Respondents to Form EIA-812, “Monthly Product Pipeline Report” include all product pipeline companies that carry petroleum products (including interstate, intrastate, and intra-company pipelines) in the 50 States and the District of Columbia.

Respondents to Form EIA-813, “Monthly Crude Oil Report” include all companies which carry or store 1,000 barrels or more of crude oil. Included in this survey are gathering and trunk pipeline companies (including interstate, intrastate, and intra-company pipelines), crude oil tank farm operators, and companies transporting Alaskan crude oil by water (to U.S. ports) in the 50 States and the District of Columbia.

Respondents to Form EIA-814, “Monthly Imports Report” include each importer of record (or Ultimate consignee in some situations regarding Canadian imports) that import crude oil or petroleum products (1) into the 50 States and the District of Columbia, (2) into Puerto Rico, the Virgin Islands and other U.S. possessions (Guam, Midway Islands, Wake Island, American Samoa, and Northern Mariana Islands), (3) into Foreign Trade Zones located in the 50 States and the District of Columbia and (4) from Puerto Rico, the Virgin Islands and other U.S. possessions into the 50 States and the District of Columbia. A report is required only if there has been an import during the month unless the importer has been selected as part of a sample to report every month regardless of activity.

Respondents to Form EIA-815, “Monthly Bulk Terminal Report” include operators of all bulk terminals located in the 50 States, District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U.S. possessions must report. A bulk terminal is primarily used for storage, marketing, and often blending of petroleum products and

has a total bulk storage capacity of 50,000 barrels or more, and/or receives petroleum products by tanker, barge, or pipeline. Bulk terminal facilities associated with a product pipeline are included.

Respondents to Form EIA-816, "Monthly Natural Gas Liquids Report" include operators of all facilities that extract liquid hydrocarbons from a natural gas stream (natural gas processing plant) and/or separate a liquid hydrocarbon stream into its component products (fractionator).

Respondents to Form EIA-817, "Monthly Tanker and Barge Movement Report" include all companies that have custody of crude oil or petroleum products transported by tanker or barge between Petroleum Administration for Defense Districts and all companies that have custody of crude oil or petroleum products originating from a PAD District and transported to the Panama Canal with the intent that the crude oil or petroleum products be further transported to another PAD District.

For purposes of this report, custody is defined as physical possession of crude oil or petroleum products on a company-owned tanker or barge. Also, companies that lease vessels or contract for the movement of crude oil or petroleum products on a tanker or barge between PAD Districts are considered to have custody.

Respondents to Form EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene" include all operators of facilities that produce (manufacture or distill) fuel alcohol, biodiesel, renewable diesel, heating oil, jet fuel, naphtha, gasoline and other biofuels and biointermediates, isooctane, isooctene and fuel oxygenates other than fuel alcohol (including MTBE plants, petrochemical plants, and refineries that produce oxygenates as part of their operations) located in the 50 States and the District of Columbia.

(3.) Collection

Survey data for the MPSRS are collected by Internet using secure file transfer, and electronic transmission. All respondents must submit their data by the 20th calendar day following the end of the report month. Receipt of the reports is monitored using an automated respondent mailing list. Telephone follow-up calls are made to nonrespondents prior to the publication deadline. Respondents who are chronically late (i.e., 3 consecutive months) are notified by EIA by certified letter.

(4.) Processing and Micro Editing

Upon receipt, all reported data are transformed into a standard format and sent through a log-in and prescreening process to validate respondent control information and resolve any discrepancies. The data are then processed using generalized edit and imputation procedures. Automated editing procedures check current data for consistency with past data and for internal consistency (e.g., totals equal to the sums of the parts). After the edit failures are resolved and imputation performed for nonrespondents, preliminary tables are produced and used to identify anomalies. These tables show U.S. and PAD District estimates for the current month and the prior 4 years. Anomalies result in further review of respondent data which in turn may result in additional flagged data and imputation.

(5.) Estimation and Imputation

The nine monthly supply surveys are census surveys. As such, the estimates using these data are the sum of the edited, reported data. Where possible, EIA uses imputed values to account for activity when a company fails to file. Depending on the survey, imputed values may be estimates based on weekly reports, estimates equal to prior-month reported quantities, or estimates based on non-survey data (e.g. imports quantities may be imputed using data provided to EIA by U.S. Customs and Border Protection). Imputation normally accounts for very small quantities in published totals because response rates to monthly surveys tend to be very high, typically exceeding 98 percent calculated as total reports received divided by total reports expected.

Adjustments are made to aggregate data from time to time. For example, unusual industry conditions, including fuel transitions, business practice shifts, or hurricane dislocations, may generate reporting anomalies and require adjustments. Measurement error and frame deficiencies may occasionally result in inconsistencies when individual respondent data are aggregated to publication levels and require adjustment. Monthly supply data are reviewed throughout the year and some estimates may be replaced with newly available or resubmitted respondent data in

the Petroleum Supply Annual (PSA).

(6.) Macro Editing

EIA compares data reported by individual companies and plants on monthly and weekly surveys. EIA uses these comparisons to identify cases where reporting companies responded differently to the same or similar questions on weekly and monthly surveys and then works with reporting companies to identify and address inconsistent or erroneous reporting on surveys. EIA also compares aggregate and other data with external sources in order to identify and correct potential errors in reporting or survey methodology. EIA makes additional comparisons of survey data with model results. EIA may use imputation to correct known and/or suspected errors in data reported in the Petroleum Supply Monthly and Petroleum Supply Annual.

(7.) Dissemination

In most cases, EIA releases *PSM* data within 60 days of the close of the reference month. The *PSM* is available on the web at:

<http://www.eia.gov/petroleum/supply/monthly/>

Much of the *PSM* data are available in HTML format on [eia.gov](http://www.eia.gov). Features include: downloadable spreadsheets containing complete data history, data tables which “pivot” to present different perspectives, and selection boxes to easily change the product, area, process, period, and unit of measure. Petroleum data can be accessed at:

<http://www.eia.gov/petroleum/data.cfm>

C. Derived Data

Due to the time constraints in publishing monthly petroleum supply statistics and the desire to reduce industry response burden, some of the statistics published in the *PSM* are obtained from sources other than the monthly supply surveys. These other sources include models to data and data from supplemental sources such as the Bureau of the Census.

(1.) Domestic Crude Oil Production

The interim estimate of U.S., PADD District, and state oil production for the current reference month, published in Tables 1 through 26 of the *PSM*, are based on:

(a.) crude oil production data from state government agencies and the Department of the Interior, Bureau of Safety and Environmental Enforcement;

(b.) crude oil production data reported on Form EIA-914, “Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report.” For some states, EIA uses current reported data from the state (chiefly Alaska). For the states of Arkansas, California, Colorado, Kansas, Louisiana, Montana, New Mexico, North Dakota, Ohio, Oklahoma, Pennsylvania, Texas, Utah, West Virginia, Wyoming, and the Federal Gulf of Mexico, EIA calculates an estimate by modeling the relationship between final state-level data from DrillingInfo, a third-party vendor of well-level data collected by state agencies, and data reported on the EIA-914 survey using weighted least squares (WLS) linear regression. Additional explanation of the WLS estimation methodology is available. Estimates have to be made for crude oil production because complete and correct data from states may take from several months to over two years.

(c.) first purchase data reported on Form EIA-182 “Domestic Crude Oil First Purchase Report.” For the remaining states and areas (Alabama, Arizona, Federal Pacific Offshore, Florida, Idaho, Illinois, Indiana, Kentucky, Maryland, Michigan, Mississippi, Missouri, Nebraska, Nevada, New York, Oregon, South Dakota, Tennessee, and Virginia) EIA calculates an estimate by using the average lagged ratio (ALR) of the state reported data to EIA-182 data, applied to the current EIA-182 data. Additional explanation of the ALR estimation methodology is available.

State-level production estimates are published in Table 26, “Production of Crude Oil by PADD District and State.” Table 26 contains estimates for crude oil production for state and federal offshore areas reported by state agencies and the Bureau of Safety and Environmental Enforcement or estimated by EIA using the ALR or WLS methods discussed above. Every month, the monthly crude oil production estimates are updated in Table 26 of the Petroleum Supply Monthly (<http://www.eia.gov/petroleum/supply/monthly/>) using reports from state agencies and the Bureau of Safety and Environmental Enforcement. The estimates are reported in the Petroleum Supply Monthly roughly 60 days after the production month.

(2.) Exports

The U.S. Bureau of the Census compiles the official U.S. export statistics. Exporters are required to file a “Shipper’s Export Declaration Document” with the U.S. Census Bureau. Each month the EIA receives aggregated export statistics from the U.S. Bureau of the Census (EM-522 and EM-594). Census export statistics used in the PSM reflect both government and non-governmental exports of domestic and foreign merchandise from the United States (the 50 States and the District of Columbia) to foreign countries and U.S. possessions, without regard to whether or not the exportation involves a commercial transaction. The following types of transactions are excluded from the statistics:

- Merchandise shipped in transit through the United States from one foreign country to another, when documented as such with U.S. Customs.
- Bunker fuels and other supplies and equipment for use on departing vessels, planes, or other carriers engaged in foreign trade.

The country of destination is defined as the country of ultimate destination or the country where the goods are to be consumed, further processed, or manufactured, as known to the shipper at the time of exportation. If the shipper does not know the country of ultimate destination, the shipment is credited to the last country to which the shipper knows that the merchandise will be shipped in the same form as it was when exported.

(3.) Movements of crude oil and select products by railroad

The volume of crude oil, ethanol, biodiesel, renewable diesel, propane, propylene, normal butane, isobutane, petroleum coke, and asphalt moving by railroad is calculated using several data sources including Carload Waybill Sample (CWS) data from the U.S. Surface Transportation Board (STB), data from the National Energy Board of Canada (NEB), data in EIA’s Oil and Gas Supply Module (OGSM) within the National Energy Modeling system (NEMS) for data prior to 2015, the EIA-914 survey starting in January 2015, and an estimation procedure developed by EIA for months in which these data are not available.

Additional data from the NEB, OGSM, and the EIA-914 are used for estimating factors for converting carloads to barrels of crude oil. Carloads of ethanol, biodiesel, renewable diesel, propane, propylene, normal butane, isobutane, petroleum coke, and asphalt are converted to barrels using data from the CWS.

The most current monthly STB waybill sample may not be received with sufficient lead time to be processed and included in the PSM publication. Further, STB aggregates and provides waybills based on the accounting period, while EIA is interested in the waybill date, which can differ by several months from the accounting period. In addition, waybills from non-Class I railroads might only be included in the sample for the last month of a calendar quarter. As a result, EIA may estimate anywhere from one to three months of rail movements, relying on historical averages or near-month model estimates for those months to be published in the PSM for which incomplete or no STB data are available.

Estimates of rail movements are subject to revision on a monthly basis as new, more complete, and more accurate data become available. Monthly revisions will typically affect data available on the EIA web site for the current year and up to two prior years. To the extent that revisions are needed to data more than 2 years in the past, these revisions will be made once a year at the time when Petroleum data html tables are updated with final data for a year.

from the Petroleum Supply Annual, Petroleum Supply Monthly and Petroleum Supply Annual tables released as PDF files will not be revised.

(4.) Stocks of Crude Oil held on Producing Sites (Lease Stocks)

The adjustment for lease stocks was discontinued beginning with PSM data for July 2016 released on September 30, 2016 because EIA discontinued reporting crude oil stocks held on producing sites (lease stocks). The lease stock adjustment remains in all historical EIA lease stocks data.

This adjustment corrects for incomplete survey coverage of companies that store crude oil on leases. Up until 1983, monthly state government data on lease stocks were substituted for EIA data wherever possible in order to rectify the understatement of lease crude oil stocks. State data were available from three states - Texas, New Mexico, and Montana. To calculate the "lease adjustment," a comparison between EIA reported data and the state government data was made and the difference added to the EIA data for the respective states.

In 1983, the EIA modified the Form EIA-813 to eliminate state data on crude oil stocks and began collecting crude oil stock data by Petroleum Administration for Defense (PAD) District. With this change, the "lease adjustment" could no longer be calculated on a state basis and was changed to a PAD District level. To adjust for this incomplete coverage, 10,300 thousand barrels of crude oil are added to PAD District 3 stocks and 330 thousand barrels are added to PAD District 4 stocks.

(5.) Trans-Alaska Pipeline System (TAPS) Natural Gas Liquids (NGL) Adjustment

The TAPS-NGPL adjustment corrects for overstatement of crude oil receipts and input at refineries due to NGL injection into Alaskan crude oil transported in TAPS. Natural gas processing plants in Alaska produce substantial volumes of NGPL that are added to crude oil transported through TAPS. Refiners have been unable to separate the volume of NGPL from Alaskan crude oil when reporting crude oil receipts and inputs to EIA. The TAPS-NGL adjustment subtracts Alaskan NGPL production reported by selected gas processing plant operators from crude oil receipts and inputs reported by refiners. Adjusted NGL production is added to refinery receipts and inputs of NGPL. The adjusted NGL barrels are allocated to PAD Districts based on the regional distribution of receipts of Alaskan crude oil. Data most affected by the TAPS-NGL adjustment are receipts and inputs of crude oil in PAD District 5 and receipts, inputs, and product supplied of butane and natural gasoline also in PAD District 5.

NGPL injections into crude oil transported in the TAPS started in 1987. The TAPS-NGL adjustment was first applied to revised data reported in the Petroleum Supply Annual (PSA) for 1988.

(6.) Finished Motor Gasoline Adjustment

Adjustment quantities for finished motor gasoline are the sum of motor gasoline blending components, fuel ethanol, and methyl tertiary butyl ether (MTBE) adjustments reclassified to finished motor gasoline. Finished motor gasoline adjustment quantities are assumed to reflect gasoline blending activity that was not reported on surveys.

Note on MTBE Adjustment: The MTBE portion of the gasoline adjustment described in this section was only applied to Petroleum Supply Monthly (PSM) data for 2009. The MTBE portion of the gasoline adjustment was discontinued after further examination of the issue made clear the MTBE adjustment was not helpful in forming an accurate statistical representation of U.S. and regional gasoline supplies. The MTBE adjustment was not applied to gasoline supply and disposition data in years prior to 2009, nor was it applied to revised data for 2009 published in the Petroleum Supply Annual or in years after 2009. This note only applies to MTBE adjustments. MTBE blending that was reported on EIA surveys is reflected in U.S. and regional gasoline supply and disposition data. Other adjustments to gasoline supply and disposition data to account for motor gasoline blending components and fuel ethanol remain as described in this section.

- Adjustment quantities for finished reformulated motor gasoline include adjustments for reformulated blendstock for oxygenate blending (RBOB) plus a percentage of gasoline treated as blendstock (GTAB), "other" motor gasoline blending components, fuel ethanol, and MTBE. The quantity of

GTAB and “other” motor gasoline blending components adjustments reclassified to finished reformulated motor gasoline is based on the ratio of finished reformulated motor gasoline net production divided by total finished motor gasoline net production reported on surveys by refiners and blenders in each PADD. Motor gasoline blending components adjustments reclassified to finished reformulated motor gasoline are further classified as blended with alcohol (i.e. fuel ethanol), blended with ether (i.e. MTBE), or non-oxygenated during 2009.

Starting with data for January 2010, motor gasoline blending component adjustment quantities were classified only as blended with fuel ethanol and “other”. During 2009, RBOB adjustment quantities were classified based on the product description that included reference to the oxygenate to be blended. Beginning with data for January 2010, all RBOB is reported in one product category without reference to specific oxygenates, and all RBOB adjustment quantities are assumed blended with fuel ethanol. During 2009, adjustment quantities for GTAB and “other” motor gasoline blending components reclassified to finished reformulated gasoline were further classified as blended with ether, blended with alcohol, or non-oxygenated based on the ratio of production of these products in reported survey data. After determining adjustment quantities of motor gasoline blending components reclassified to each type of finished reformulated motor gasoline, portions of the fuel ethanol and MTBE adjustments were reclassified to reformulated motor gasoline. The fuel ethanol quantity reclassified to finished reformulated motor gasoline was determined using the ratio of fuel ethanol blended into finished motor gasoline calculated from fuel ethanol blending data reported on survey forms by PADD. For example, if the calculated volumetric fuel ethanol blend ratio was 10%, then a quantity of the fuel ethanol adjustment sufficient to make a 10% blend with the available motor gasoline blending components is reclassified to finished reformulated motor gasoline, but the quantity of fuel ethanol cannot exceed the total quantity of the fuel ethanol adjustment. During 2009, a similar process was followed for allocating the MTBE adjustment to reformulated motor gasoline except the blend ratio was assumed to be 12% in all PADD. Starting with data for January 2010, the entire MTBE adjustment quantity is assumed to be blended with finished conventional motor gasoline.

- Adjustment quantities for finished conventional motor gasoline include adjustments for conventional blendstock for oxygenate blending (CBOB) plus the portion of GTAB, “other” motor gasoline blending components, fuel ethanol and MTBE adjustments that were not reclassified to finished reformulated motor gasoline. The total adjustment to finished conventional motor gasoline is further classified as finished conventional gasoline blended with fuel ethanol and “other” finished conventional motor gasoline. The quantity of the finished conventional motor gasoline adjustment reclassified as finished conventional motor gasoline blended with fuel ethanol is determined using the quantity of the fuel ethanol adjustment allocated to finished conventional motor gasoline and the fuel ethanol blend ratio calculated from fuel ethanol blending reported on surveys by PADD. For example, if the fuel ethanol blend ratio calculated from survey data was 10% in a PADD, then the total adjustment quantity of finished conventional motor gasoline in that PADD would be 10 times the fuel ethanol adjustment quantity allocated to finished conventional gasoline (i.e. the adjustment to finished conventional motor gasoline blended with fuel ethanol includes 10% fuel ethanol and 90% gasoline from the motor gasoline blending components adjustment). The MTBE adjustment allocated to finished conventional motor gasoline is simply added to the adjustment for “other” finished conventional motor gasoline.

- Fuel ethanol adjustment quantities frequently exceed the volume of fuel ethanol needed to achieve a blend ratio implied by blending activity reported by refiners and blenders on surveys when considering only the gasoline barrels available from the motor gasoline blending components adjustment. In this case, “other” finished conventional motor gasoline is reclassified by the adjustment to finished conventional motor gasoline blended with alcohol in order to maintain an ethanol blend ratio equal to the fuel ethanol blend ratio reported by refiners and blenders in each PADD.

(7.) Motor Gasoline Blending Components Adjustment

Adjustment quantities for motor gasoline blending components at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports and biofuels plant net production (i.e. motor gasoline blending components use as denaturant for fuel ethanol production). Adjustment quantities by PADD equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports, biofuels plant net production, and net receipts. Motor gasoline blending components adjustments are calculated for

reformulated blendstock for oxygenate blending (RBOB), conventional blendstock for oxygenate blending (CBOB), gasoline treated as blendstock (GTAB), and “other” motor gasoline blending components. Product supplied for motor gasoline blending components is assumed to always equal zero because there is no end-user demand for motor gasoline blending components as anything other than finished motor gasoline. Motor gasoline blending components adjustment quantities are assumed to reflect finished motor gasoline blending implied by the supply and disposition balance but not reported on surveys. Adjustment quantities for motor gasoline blending components are reclassified to finished motor gasoline and added to the finished motor gasoline adjustment.

(8.) Biofuels including Fuel Ethanol Adjustment

For data prior to January 2021, adjustment quantities for biofuels (including fuel ethanol) at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of biofuels plant net production and imports. Calculation of adjustment quantities by PADD depend on the product. Individual products include fuel ethanol, biodiesel, renewable diesel fuel, and other biofuels (e.g. bio-jet fuel). Product supplied for biofuels (including fuel ethanol) is assumed equal to zero. Adjustments for fuel ethanol and “other” biofuels are discussed separately below. Beginning with data for January 2021, EIA discontinued calculating adjustment quantities for biodiesel, renewable diesel fuel, and other biofuels (e.g. bio-jet fuel). EIA now includes these adjustment quantities as product supplied.

- Fuel ethanol adjustment quantities at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of biofuels plant net production and imports. Adjustment quantities by PADD equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports, biofuels plant net production, and net receipts. Fuel ethanol adjustment quantities are assumed to reflect blending of fuel ethanol into finished motor gasoline that is implied by the available supply of fuel ethanol but not reported on surveys. Fuel ethanol adjustment volumes are reclassified to finished reformulated motor gasoline and finished conventional motor gasoline through finished motor gasoline adjustments.
- The product category called “biofuels (excluding fuel ethanol)” includes biodiesel, renewable diesel fuel, and other biofuels (e.g. bio-jet fuel). For PSM data prior to January 2012, EIA calculated adjustment quantities for biofuels (excluding fuel ethanol) at the U.S. and PADD levels equal to the sum of stock change, refinery and blender net input, and exports minus imports. Data for production of Biofuels (excluding Fuel Ethanol) was unavailable and was excluded from Biofuels Plant Net Production. Therefore the calculation of adjustments to Biofuels (excluding Fuel Ethanol) caused production to be included in the adjustment. Similarly, the calculation caused net inter-PADD movements (i.e. net receipts) by rail and truck to also be included in adjustments to biofuels (excluding fuel ethanol).

Beginning with PSM data for January 2012, and PSA data for 2011 through December, 2020 production of biodiesel reported on Form EIA-22M was included under the heading of “biofuels plant net production” in petroleum supply and disposition balances for “biofuels (excluding fuel ethanol)”. As a result, the adjustment for “biofuels (excluding fuel ethanol)” excludes production of biodiesel beginning with data for January 2012. Beginning with data for January 2010 EIA included rail movements of biodiesel in inter-PADD movements, and so rail movements were excluded from adjustment quantities.

- For data prior to January 2021, biodiesel adjustment quantities at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of biofuels plant net production and imports. Adjustment quantities by PADD equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports, biofuels plant net production, and net receipts. Biodiesel adjustment quantities are assumed to reflect blending of biodiesel into distillate fuel oil that is implied by the available supply of biodiesel but not reported as input on surveys. Biodiesel adjustment volumes are reclassified to distillate fuel oil (15 ppm sulfur and under) through distillate fuel oil adjustments. EIA discontinued calculating biodiesel and distillate fuel oil adjustment quantities beginning with data for January 2021. EIA now includes barrels of biodiesel formerly reported in adjustment quantities as product supplied of biofuels (excluding fuel ethanol).

Beginning with PSM data for January 2021, EIA included production of renewable diesel, heating oil, jet

fuel, naphtha, gasoline, and other biofuels and biointermediates reported on Form EIA-819 under the heading of “biofuels plant net production” in petroleum supply and disposition balances for “biofuels (excluding fuel ethanol)”. EIA now reports barrels formerly included in adjustment quantities as product supplied.

(9.) Distillate Fuel Oil Adjustment

Adjustment quantities for distillate fuel oil show reclassification by pipeline operators of distillate fuel oil with sulfur content of 15 ppm and under to distillate fuel oil with sulfur content greater than 15 ppm to 500 ppm (inclusive). Reclassification may occur when distillate product with sulfur content of 15 ppm and under becomes mixed with products having higher sulfur content during pipeline transportation, storage, or handling. Adjustment quantities are reported by pipeline operators on Form EIA-812 “Monthly Product Pipeline Report.” This adjustment was discontinued after publication of data for December 2010.

For PSM data from January 2012 and PSA data from January 2011 through December 2020, EIA calculated distillate fuel oil adjustments equal to the opposite of biodiesel adjustment quantities described above in section 8. EIA added biodiesel adjustment quantities to supply of distillate fuel oil (15 ppm sulfur and under) and total distillate fuel oil. EIA assumed that distillate fuel oil adjustment quantities reflected biodiesel blending activity implied by biodiesel supply and disposition but not reported on surveys. Beginning with data for January 2021, EIA discontinued calculating and reporting distillate fuel oil adjustment quantities.

(10.) Crude Oil Adjustment

Adjustment quantities for crude oil are derived to balance crude oil supply and disposition. Crude oil product supplied was equal to crude oil used directly as reported on Form EIA-813 “Monthly Crude Oil Report” in data through December 2009. Reporting crude oil used directly was discontinued on Form EIA-813 after collection of data for December 2009. Crude oil product supplied is assumed equal to zero beginning with data for January 2010. Undercounting crude oil imports in survey data is one example of a typical cause of crude oil adjustments. This results in a positive crude oil adjustment because crude oil disposition (i.e. the sum of stock change, refiner inputs, and exports) will exceed available supply (i.e. the sum of field production and imports) due to import undercounting. Crude oil losses are included in crude oil adjustment quantities. The crude oil adjustment was formerly called unaccounted-for crude oil. The name change was effective with data for January 2005.

(11.) Other Hydrocarbon Adjustment

Adjustment quantities for “other” hydrocarbons equal the sum of stock change, refinery and blender net inputs and exports minus imports. “Other” hydrocarbons product supplied is assumed equal to zero. Adjustment quantities account for “other” hydrocarbons produced outside of refineries. There are no movements data collected on surveys for “other” hydrocarbons. Therefore, adjustment quantities include any net receipts of “other” hydrocarbons resulting from inter-PAD District movements.

(12.) Hydrogen Adjustment

Adjustment quantities for hydrogen equal refinery and blender net input of hydrogen. Hydrogen product supplied is assumed equal to zero. Adjustment quantities account for hydrogen supplied to U.S. refineries from non-refinery sources. There are no movements data collected on surveys for hydrogen. Therefore, adjustment quantities at the PAD District level include any net receipts of hydrogen resulting from inter-PAD District movements.

(13.) Oxygenates (excluding fuel ethanol) Adjustment

Adjustment quantities for oxygenates (excluding fuel ethanol) equal the sum of stock change, refinery and blender net inputs, and exports minus the sum of biofuels plant net production and imports. Product supplied for oxygenates (excluding fuel ethanol) is assumed equal to zero. Methyl tertiary butyl ether (MTBE) is the single largest component of oxygenates (excluding fuel ethanol). Beginning with PSA data for 2019, EIA excluded oxygenates supply and disposition from U.S. and regional balance tables.

3. Quality

A. General Discussion

(1.) Response Rates

The response rate is generally 98 to 100 percent. Average response rates for the monthly and weekly surveys are published in the annual PSM article “Accuracy of Petroleum Supply Data.” Chronic nonrespondents and late filing respondents are contacted in writing and reminded of their requirement to report. Companies that file late or fail to file are subject to criminal fines, civil penalties, and other sanctions as provided by Section 13(i) of the Federal Energy Administration (FEA) Act.

(2.) Non-sampling Errors

There are two types of errors usually associated with data produced from a survey; sampling errors and nonsampling errors. Because the estimates for the monthly surveys are based on a complete census of the frame, there is no sampling error in the data presented. The data, however, are subject to non-sampling errors. Non-sampling errors may arise from a number of sources including: (1) the inability to obtain data from all companies in the frame (non-response) and the method used to account for non-response, (2) response errors, (3) differences in the interpretation of questions or definitions, (4) mistakes in recording or coding of the data obtained from respondents, and (5) other errors of collection, response, coverage, processing, and estimation.

(3.) Resubmissions

Throughout the year, EIA accepts data revisions of monthly data. If a revision to a monthly submission is made after the PSM has been published, it is referred to as a resubmission. The final monthly values for the previous year are published in the PSA. These values reflect all PSM resubmissions and other data corrections. The values contained in the PSA are EIA’s most accurate measure of petroleum supply activity.

(4.) Revision Policy

EIA will publish revised monthly crude oil production estimates going back to the previously published Petroleum Supply Annual every month in petroleum data tables (<http://www.eia.gov/petroleum/supply/monthly/>). Once a year with the release of the Petroleum Supply Annual, EIA will revise up to 10 years of historical production estimates in petroleum data tables.

B. Data Assessment

The principal objective of the PSRS is to provide an accurate picture of petroleum industry activities and of the availability of petroleum products nationwide from primary distribution channels. The PSM preliminary monthly data serve as leading indicators of the final monthly data published in the PSA. The PSM monthly data are not expected to have the same level of accuracy as the final monthly data published in the PSA. However, the preliminary monthly data are expected to exhibit like trends and product flow characteristic of the final monthly data.

To assess the accuracy of monthly statistics, initial monthly estimates published in the PSM are compared with the final monthly aggregates published in the PSA. Although final monthly data are still subject to error, they have been thoroughly reviewed and edited, they reflect all revisions made during the year, and they are considered to be the most accurate data available. The mean absolute percent error provides a measure of the average revisions relative to the aggregates being measured for a variable. The mean absolute percent error for 2007 monthly data was less than 1 percent for 50 of the 66 major petroleum variables analyzed.

4. Provisions Regarding Disclosure of Information

All PSRS survey forms, with the exception of the Form EIA-814, “Monthly Imports Report,” have the same general

disclosure information statement. The information reported on Form EIA-814 will be considered “public information” and may be publicly released in company or individually identifiable form, and will not be protected from disclosure in identifiable form. In addition, biofuel production capacity data reported on Form EIA-819 and Form EIA-22M will be released in company identifiable form. Refinery distillation capacity collected on Form EIA-810 also may be released in company identifiable form. EIA releases annual refinery input and production capacities in company identifiable form each year in the Annual Refinery Capacity Report.

Except as described above, information reported on Forms EIA-810 through 813, 815 through 817, 819, 820, and 22M will be protected and not disclosed to the public to the extent that it satisfies the criteria for exemption under the Freedom of Information Act (FOIA), 5 U.S.C. § 552, the Department of Energy (DOE) regulations, 10 C.F.R. § 1004.11, implementing the FOIA, and the Trade Secrets Act, 18 U.S.C. § 1905. The Federal Energy Administration Act requires the EIA to provide company-specific data to other Federal agencies when requested for official use. The information reported on this form may also be made available, upon request, to another DOE component; to any Committee of Congress, the Government Accountability Office, or other Federal agencies authorized by law to receive such information. A court of competent jurisdiction may obtain this information in response to an order. The information may be used for any nonstatistical purposes such as administrative, regulatory, law enforcement, or adjudicatory purposes.

Disclosure limitation procedures are not applied to the statistical data aggregated and published from these survey's information. Thus, there may be some statistics that are based on data from fewer than three respondents, or that are dominated by data from one or two large respondents. In these cases, it may be possible for a knowledgeable person to estimate the information reported by a specific respondent.

In addition to the use of the information by EIA for statistical purposes, the information may be made available, upon request, to other Federal agencies authorized by law to receive such information for any nonstatistical purposes such as administrative, regulatory, law enforcement, or adjudicatory purposes.

Company specific data are also provided to other DOE offices for the purpose of examining specific petroleum operations in the context of emergency response planning and actual emergencies.

Northeast Reserves

Reserves inventories are not considered to be in the commercial sector and are excluded from EIA's commercial motor gasoline and distillate fuel oil supply and disposition statistics, such as those reported in the *Weekly Petroleum Status Report*, *Petroleum Supply Monthly*, and *This Week In Petroleum*.

Northeast Home Heating Oil Reserve classified as ultra-low sulfur distillate (15 parts per million)

Terminal Operator	Location	Thousand Barrels
Buckeye Partners LP	Port Reading, NJ	300
Buckeye Partners LP	Groton, CT	300
Global Companies LLC	Revere, MA	101
Gulf Oil LP	Chelsea, MA	300

Source: U. S. Energy Information Administration

Northeast Regional Refined Petroleum Product Reserve motor gasoline products

Terminal Operator	Location	Thousand Barrels
Buckeye Terminals LLC	Port Reading, NJ	900
Global Companies LLC	Revere, MA	0
South Portland Terminal LLC	South Portland, ME	99

Source: U. S. Energy Information Administration

Other reserves information from the U.S. Department of Energy, Office of Petroleum Reserves can be found at <http://energy.gov/fe/services/petroleum-reserves/>

State of New York's Strategic Fuels Reserve Program

State reserve inventories are also not considered to be in the commercial sector and are excluded from EIA's commercial inventories and are excluded from supply and disposition statistics, such as those reported in the *Weekly Petroleum Status Report*, *Petroleum Supply Monthly*, and *This Week In Petroleum*.

Product	Location	Thousand Barrels
Motor Gasoline Blending Components	NY	83
Fuel Ethanol	NY	9
Distillate Fuel Oil, 15 ppm Sulfur and Under	NY	34

Source: New York State Energy Research & Development Authority

Definitions of Petroleum Products and Other Terms

(Revised June 2021)

Alcohol. The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The series of molecules vary in chain length and are composed of a hydrocarbon plus a hydroxyl group; $\text{CH}_3\text{-(CH}_2\text{)}_n\text{-OH}$ (e.g., methanol, ethanol, and tertiary butyl alcohol).

Alkylate. The product of an alkylation reaction. It usually refers to the high octane product from alkylation units. This alkylate is used in blending high octane gasoline.

Alkylation. A refining process for chemically combining isobutane with olefin hydrocarbons (e.g., propylene, butylene) through the control of temperature and pressure in the presence of an acid catalyst, usually sulfuric acid or hydrofluoric acid. The product, alkylate, an isoparaffin, has high octane value and is blended with motor and aviation gasoline to improve the antiknock value of the fuel.

All Other Motor Gasoline Blending Components. See Motor Gasoline Blending Components.

API Gravity. An arbitrary scale expressing the gravity or density of liquid petroleum products. The measuring scale is calibrated in terms of degrees API; it may be calculated in terms of the following formula:

$$\text{Degrees API} = \frac{141.5}{\text{sp. gr. @ } 60^\circ \text{ F}} - 131.5$$

The higher the API gravity, the lighter the compound. Light crudes generally exceed 38 degrees API and heavy crudes are commonly labeled as all crudes with an API gravity of 22 degrees or below. Intermediate crudes fall in the range of 22 degrees to 38 degrees API gravity.

Aromatics. Hydrocarbons characterized by unsaturated ring structures of carbon atoms. Commercial petroleum aromatics are benzene, toluene, and xylene (BTX).

Asphalt. A dark-brown-to-black cement-like material containing bitumens as the predominant constituent obtained by petroleum processing; used primarily for road construction. It includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts. Note: The conversion factor for asphalt is 5.5 barrels per short ton.

ASTM. The acronym for the American Society for Testing and Materials.

Atmospheric Crude Oil Distillation. The refining process of separating crude oil components at atmospheric pressure by heating to temperatures of about 600 degrees Fahrenheit to 750 degrees Fahrenheit (depending on the nature of the crude oil and desired products) and subsequent condensing of the fractions by cooling.

Aviation Gasoline (Finished). A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in aviation reciprocating

engines. Fuel specifications are provided in ASTM Specification D 910 and Military Specification MIL-G-5572. Note: Data on blending components are not counted in data on finished aviation gasoline.

Aviation Gasoline Blending Components. Naphthas which will be used for blending or compounding into finished aviation gasoline (e.g., straight-run gasoline, alkylate, reformat, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus. Oxygenates are reported as other hydrocarbons, hydrogen, and oxygenates.

Barrel. A unit of volume equal to 42 U.S. gallons.

Barrels Per Calendar Day. The amount of input that a distillation facility can process under usual operating conditions. The amount is expressed in terms of capacity during a 24-hour period and reduces the maximum processing capability of all units at the facility under continuous operation (see **Barrels per Stream Day**) to account for the following limitations that may delay, interrupt, or slow down production:

the capability of downstream facilities to absorb the output of crude oil processing facilities of a given refinery. No reduction is made when a planned distribution of intermediate streams through other than downstream facilities is part of a refinery's normal operation;

the types and grades of inputs to be processed;

the types and grades of products expected to be manufactured;

the environmental constraints associated with refinery operations;

the reduction of capacity for scheduled downtime due to such conditions as routine inspection, maintenance, repairs, and turnaround; and

the reduction of capacity for unscheduled downtime due to such conditions as mechanical problems, repairs, and slowdowns.

Barrels Per Stream Day. The maximum number of barrels of input that a distillation facility can process within a 24-hour period when running at full capacity under optimal crude and product slate conditions with no allowance for downtime.

Benzene (C_6H_6). An aromatic hydrocarbon present in small proportion in some crude oils and made commercially from petroleum by the catalytic reforming of naphthenes in petroleum naphtha. Also made from coal in the manufacture of coke. Used as a solvent, in manufacturing detergents, synthetic fibers, and petrochemicals and as a component of high-octane gasoline.

Biomass-Based Diesel Fuel. Biodiesel and other renewable diesel fuel or diesel fuel blending components derived from biomass, but excluding renewable diesel fuel coprocessed with petroleum

feedstocks.

Blending Components. See *Motor or Aviation Gasoline Blending Components*.

Blending Plant. A facility which has no refining capability but is either capable of producing finished motor gasoline through mechanical blending or blends oxygenates with motor gasoline.

Bonded Petroleum Imports. Petroleum imported and entered into Customs bonded storage. These imports are not included in the import statistics until they are: (1) withdrawn from storage free of duty for use as fuel for vessels and aircraft engaged in international trade; or (2) withdrawn from storage with duty paid for domestic use.

BTX. The acronym for the commercial petroleum aromatics benzene, toluene, and xylene. See individual categories for definitions.

Bulk Station. A facility used primarily for the storage and/or marketing of petroleum products which has a total bulk storage capacity of less than 50,000 barrels and receives its petroleum products by tank car or truck.

Bulk Terminal. A facility used primarily for the storage and/or marketing of petroleum products which has a total bulk storage capacity of 50,000 barrels or more and/or receives petroleum products by tanker, barge, or pipeline.

Butane (C₄H₁₀). A normally gaseous straight-chain or branch-chain hydrocarbon extracted from natural gas or refinery gas streams. It includes normal butane and refinery-grade butane and is designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial butane.

Normal Butane (C₄H₁₀). A normally gaseous straight-chain hydrocarbon that is a colorless paraffinic gas which boils at a temperature of 31.1 degrees Fahrenheit and is extracted from natural gas or refinery gas streams.

Refinery-Grade Butane (C₄H₁₀). A refinery-produced stream that is composed predominantly of normal butane and/or isobutane and may also contain propane and/or natural gasoline. These streams may also contain significant levels of olefins and/or fluorides contamination.

Butylene (C₄H₈). An olefinic hydrocarbon recovered from refinery processes.

Captive Refinery Oxygenate Plants. Oxygenate production facilities located within or adjacent to a refinery complex.

Catalytic Cracking. The refining process of breaking down the larger, heavier, and more complex hydrocarbon molecules into simpler and lighter molecules. Catalytic cracking is accomplished by the use of a catalytic agent and is an effective process for increasing the yield of gasoline from crude oil. Catalytic cracking processes fresh feeds and recycled feeds.

Fresh Feeds. Crude oil or petroleum distillates which are being fed to processing units for the first time.

Recycled Feeds. Feeds that are continuously fed back for additional processing.

Catalytic Hydrocracking. A refining process that uses hydrogen and catalysts with relatively low temperatures and high pressures for converting middle boiling or residual material to high-octane gasoline, reformer charge stock, jet fuel, and/or high grade fuel oil. The process uses one or more catalysts, depending upon product output, and can handle high sulfur feedstocks without prior desulfurization.

Catalytic Hydrotreating. A refining process for treating petroleum fractions from atmospheric or vacuum distillation units (e.g., naphthas, middle distillates, reformer feeds, residual fuel oil, and heavy gas oil) and other petroleum (e.g., cat cracked naphtha, coker naphtha, gas oil, etc.) in the presence of catalysts and substantial quantities of hydrogen. Hydrotreating includes desulfurization, removal of substances (e.g., nitrogen compounds) that deactivate catalysts, conversion of olefins to paraffins to reduce gum formation in gasoline, and other processes to upgrade the quality of the fractions.

Catalytic Reforming. A refining process using controlled heat and pressure with catalysts to rearrange certain hydrocarbon molecules, thereby converting paraffinic and naphthenic type hydrocarbons (e.g., low-octane gasoline boiling range fractions) into petrochemical feedstocks and higher octane stocks suitable for blending into finished gasoline. Catalytic reforming is reported in two categories. They are:

Low Pressure. A processing unit operating at less than 225 pounds per square inch gauge (PSIG) measured at the outlet separator.

High Pressure. A processing unit operating at either equal to or greater than 225 pounds per square inch gauge (PSIG) measured at the outlet separator.

Charge Capacity. The input (feed) capacity of the refinery processing facilities.

Coal. A readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time.

Commercial Kerosene-Type Jet Fuel. See *Kerosene-Type Jet Fuel*.

Conventional Blendstock for Oxygenate Blending (CBOB). See *Motor Gasoline Blending Components*.

Conventional Gasoline. See *Motor Gasoline (Finished)*.

Crude Oil. A mixture of hydrocarbons that exists in liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Depending upon the characteristics of the crude stream, it may also include:

Small amounts of hydrocarbons that exist in gaseous phase in natural underground reservoirs but are liquid at atmospheric pressure after being recovered from oil well (casinghead) gas in lease separators and are subsequently commingled

with the crude stream without being separately measured. Lease condensate recovered as a liquid from natural gas wells in lease or field separation facilities and later mixed into the crude stream is also included;

Small amounts of nonhydrocarbons produced from oil, such as sulfur and various metals;

Drip gases, and liquid hydrocarbons produced from tar sands, oil sands, gilsonite, and oil shale.

Liquids produced at natural gas processing plants are excluded. Crude oil is refined to produce a wide array of petroleum products, including heating oils; gasoline, diesel and jet fuels; lubricants; asphalt; ethane, propane, and butane; and many other products used for their energy or chemical content.

Crude oil is considered as either domestic or foreign, according to the following:

Domestic. Crude oil produced in the United States or from its Outer continental shelf' as defined in 43 USC 1331.

Foreign. Crude oil produced outside the United States. Imported Athabasca hydrocarbons (tar sands from Canada) are included.

Crude Oil, Refinery Receipts. Receipts of domestic and foreign crude oil at a refinery. Includes all crude oil in transit except crude oil in transit by pipeline. Foreign crude oil is reported as a receipt only after entry through customs. Crude oil of foreign origin held in bonded storage is excluded.

Crude Oil Losses. Represents the volume of crude oil reported by petroleum refineries as being lost in their operations. These losses are due to spills, contamination, fires, etc. as opposed to refinery processing losses.

Crude Oil Production. The volume of crude oil produced from oil reservoirs during given periods of time. The amount of such production for a given period is measured as volumes delivered from lease storage tanks (i.e., the point of custody transfer) to pipelines, trucks, or other media for transport to refineries or terminals with adjustments for (1) net differences between opening and closing lease inventories, and (2) basic sediment and water (BS&W).

Crude Oil Qualities. Refers to two properties of crude oil, the sulfur content and API gravity, which affect processing complexity and product characteristics.

Delayed Coking. A process by which heavier crude oil fractions can be thermally decomposed under conditions of elevated temperatures and pressure to produce a mixture of lighter oils and petroleum coke. The light oils can be processed further in other refinery units to meet product specifications. The coke can be used either as a fuel or in other applications such as the manufacturing of steel or aluminum.

Desulfurization. The removal of sulfur, as from molten metals, petroleum oil, or flue gases. Petroleum desulfurization is a process that removes sulfur and its compounds from various streams during the refining process. Desulfurization processes include catalytic hydrotreating and other chemical/physical processes such

as adsorption. Desulfurization processes vary based on the type of stream treated (e.g., naphtha, distillate, heavy gas oil, etc.) and the amount of sulfur removed (e.g., sulfur reduction to 10 ppm). See **Catalytic Hydrotreating.**

Disposition. The components of petroleum disposition are stock change, crude oil losses, refinery inputs, exports, and products supplied for domestic consumption.

Distillate Fuel Oil. A general classification for one of the petroleum fractions produced in conventional distillation operations. It includes diesel fuels and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and electric power generation.

No. 1 Distillate. A light petroleum distillate that can be used as either a diesel fuel or a fuel oil.

No. 1 Diesel Fuel. A light distillate fuel oil that has a distillation temperature of 550 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 975. It is used in high speed diesel engines generally operated under frequent speed and load changes, such as those in city buses and similar vehicles. See **No. 1 Distillate.**

No. 1 Fuel Oil. A light distillate fuel oil that has distillation temperatures of 400 degrees Fahrenheit at the 10-percent recovery point and 550 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 396. It is used primarily as fuel for portable outdoor stoves and portable outdoor heaters. See **No. 1 Distillate.**

No. 2 Distillate. A petroleum distillate that can be used as either a diesel fuel or a fuel oil.

No. 2 Diesel Fuel. A distillate fuel oil that has a distillation temperature of 640 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 975. It is used in high-speed diesel engines that are generally operated under uniform speed and load conditions, such as those in railroad locomotives, trucks, and automobiles. See **No. 2 Distillate.**

Low Sulfur No. 2 Diesel Fuel. No. 2 diesel fuel that has a sulfur level no higher than 0.05 percent by weight. It is used primarily in motor vehicle diesel engines for on-highway use.

High Sulfur No. 2 Diesel Fuel. No. 2 diesel fuel that has a sulfur level above 0.05 percent by weight.

No. 2 Fuel Oil (Heating Oil). A distillate fuel oil that has a distillation temperature of 640 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 396. It is used in

atomizing type burners for domestic heating or for moderate capacity commercial/industrial burner units. See *No. 2 Distillate*.

No. 4 Fuel. A distillate fuel oil made by blending distillate fuel oil and residual fuel oil stocks. It conforms to ASTM Specification D 396 or Federal Specification VV-F-815C and is used extensively in industrial plants and in commercial burner installations that are not equipped with preheating facilities. It also includes No. 4 diesel fuel used for low- and medium-speed diesel engines and conforms to ASTM Specification D 975.

No. 4 Diesel Fuel. See *No. 4 Fuel*.

No. 4 Fuel Oil. See *No. 4 Fuel*.

Electricity (Purchased). Electricity purchased for refinery operations that is not produced within the refinery complex.

Ending Stocks. Primary stocks of crude oil and petroleum products held in storage as of 12 midnight on the last day of the month. Primary stocks include crude oil or petroleum products held in storage at (or in) leases, refineries, natural gas processing plants, pipelines, tank farms, and bulk terminals that can store at least 50,000 barrels of petroleum products or that can receive petroleum products by tanker, barge, or pipeline. Crude oil that is in-transit by water from Alaska, or that is stored on Federal leases or in the Strategic Petroleum Reserve is included. Primary Stocks exclude stocks of foreign origin that are held in bonded warehouse storage.

ETBE (Ethyl tertiary butyl ether) (CH₃)₃COC₂H₅. An oxygenate blend stock formed by the catalytic etherification of isobutylene with ethanol.

Ethane (C₂H₆). A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of - 127.48 degrees Fahrenheit. It is extracted from natural gas and refinery gas streams.

Ether. A generic term applied to a group of organic chemical compounds composed of carbon, hydrogen, and oxygen, characterized by an oxygen atom attached to two carbon atoms (e.g., methyl tertiary butyl ether).

Ethylene (C₂H₄). An olefinic hydrocarbon recovered from refinery processes or petrochemical processes. Ethylene is used as a petrochemical feedstock for numerous chemical applications and the production of consumer goods.

Exports. Shipments of crude oil and petroleum products from the 50 States and the District of Columbia to foreign countries, Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

Field Production. Represents crude oil production on leases, natural gas liquids production at natural gas processing plants, new supply of other hydrocarbons/oxygenates and motor gasoline blending components, and fuel ethanol blended into finished motor gasoline.

Flexicoking. A thermal cracking process which converts heavy

hydrocarbons such as crude oil, tar sands bitumen, and distillation residues into light hydrocarbons. Feedstocks can be any pumpable hydrocarbons including those containing high concentrations of sulfur and metals.

Fluid Coking. A thermal cracking process utilizing the fluidized-solids technique to remove carbon (coke) for continuous conversion of heavy, low-grade oils into lighter products.

Fresh Feed Input. Represents input of material (crude oil, unfinished oils, natural gas liquids, other hydrocarbons and oxygenates or finished products) to processing units at a refinery that is being processed (input) into a particular unit for the first time.

Examples:

(1.) Unfinished oils coming out of a crude oil distillation unit which are input into a catalytic cracking unit are considered fresh feed to the catalytic cracking unit.

(2.) Unfinished oils coming out of a catalytic cracking unit being looped back into the same catalytic cracking unit to be reprocessed are not considered fresh feed.

Fuel Ethanol (C₂H₅OH). An anhydrous alcohol (ethanol with less than 1% water) intended for gasoline blending as described in Oxygenates definition.

Fuels Solvent Deasphalting. A refining process for removing asphalt compounds from petroleum fractions, such as reduced crude oil. The recovered stream from this process is used to produce fuel products.

Gas Oil. A liquid petroleum distillate having a viscosity intermediate between that of kerosene and lubricating oil. It derives its name from having originally been used in the manufacture of illuminating gas. It is now used to produce distillate fuel oils and gasoline.

Gasohol. A blend of finished motor gasoline containing alcohol (generally ethanol but sometimes methanol) at a concentration of 10 percent or less by volume. Data on gasohol that has at least 2.7 percent oxygen, by weight, and is intended for sale inside carbon monoxide nonattainment areas are included in data on oxygenated gasoline. See *Oxygenates*.

Gasoline Blending Components. Naphthas which will be used for blending or compounding into finished aviation or motor gasoline (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus.

Gasoline Treated as Blendstock (GTAB). See *Motor Gasoline Blending Components*.

Gross Input to Atmospheric Crude Oil Distillation Units. Total input to atmospheric crude oil distillation units. Includes all crude oil, lease condensate, natural gas plant liquids, unfinished oils, liquefied refinery gases, slop oils, and other liquid hydrocarbons produced from tar sands, gilsonite, and oil shale.

Heavy Gas Oil. Petroleum distillates with an approximate boiling

range from 651 degrees Fahrenheit to 1000 degrees Fahrenheit.

High-Sulfur Distillate Fuel Oil. Distillate fuel oil having sulfur content greater than 500 ppm.

Hydrogen. The lightest of all gases, occurring chiefly in combination with oxygen in water; exists also in acids, bases, alcohols, petroleum, and other hydrocarbons.

Idle Capacity. The component of operable capacity that is not in operation and not under active repair, but capable of being placed in operation within 30 days; and capacity not in operation but under active repair that can be completed within 90 days.

Imported Crude Oil Burned As Fuel. The amount of foreign crude oil burned as a fuel oil, usually as residual fuel oil, without being processed as such. Imported crude oil burned as fuel includes lease condensate and liquid hydrocarbons produced from tar sands, gilsonite, and oil shale.

Imports. Receipts of crude oil and petroleum products into the 50 States and the District of Columbia from foreign countries, Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

Isobutane (C₄H₁₀). A normally gaseous branch-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 10.9 degrees Fahrenheit. It is extracted from natural gas or refinery gas streams.

Isobutylene (C₄H₈). An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

Isohexane (C₆H₁₄). A saturated branch-chain hydrocarbon. It is a colorless liquid that boils at a temperature of 156.2 degrees Fahrenheit.

Isomerization. A refining process which alters the fundamental arrangement of atoms in the molecule without adding or removing anything from the original material. Used to convert normal butane into isobutane (C₄), an alkylation process feedstock, and normal pentane and hexane into isopentane (C₅) and isohexane (C₆), high-octane gasoline components.

Isopentane. See *Natural Gasoline and Isopentane.*

Kerosene. A light petroleum distillate that is used in space heaters, cook stoves, and water heaters and is suitable for use as a light source when burned in wick-fed lamps. Kerosene has a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point, a final boiling point of 572 degrees Fahrenheit, and a minimum flash point of 100 degrees Fahrenheit. Included are No. 1-K and No. 2-K, the two grades recognized by ASTM Specification D 3699 as well as all other grades of kerosene called range or stove oil, which have properties similar to those of No. 1 fuel oil. See *Kerosene-Type Jet Fuel.*

Kerosene-Type Jet Fuel. A kerosene-based product having a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point and a final maximum boiling point of 572 degrees Fahrenheit and meeting ASTM Specification D 1655 and Military Specifications MIL-T-5624P and MIL-T-83133D (Grades JP-5 and JP-8). It is used for commercial and military turbojet and turboprop aircraft engines.

Commercial. Kerosene-type jet fuel intended for use in commercial aircraft.

Military. Kerosene-type jet fuel intended for use in military aircraft.

Lease Condensate. A mixture consisting primarily of pentanes and heavier hydrocarbons which is recovered as a liquid from natural gas in lease separation facilities. This category excludes natural gas liquids, such as butane and propane, which are recovered at downstream natural gas processing plants or facilities. See *Natural Gas Liquids.*

Light Gas Oils. Liquid Petroleum distillates heavier than naphtha, with an approximate boiling range from 401 degrees Fahrenheit to 650 degrees Fahrenheit.

Liquefied Petroleum Gases (LPG). A group of hydrocarbon-based gases derived from crude oil refining or natural gas fractionation. They include: ethane, ethylene, propane, propylene, normal butane, butylene, isobutane, and isobutylene. For convenience of transportation, these gases are liquefied through pressurization.

Liquefied Refinery Gases (LRG). Liquefied petroleum gases fractionated from refinery or still gases. Through compression and/or refrigeration, they are retained in the liquid state. The reported categories are ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene. Excludes still gas.

Low-Sulfur Distillate Fuel Oil. Distillate fuel oil having sulfur content greater than 15 ppm to 500 ppm. Low sulfur distillate fuel oil also includes product with sulfur content equal to or less than 15 ppm if the product is intended for pipeline shipment and the pipeline has a sulfur specification below 15 ppm.

Lubricants. Substances used to reduce friction between bearing surfaces or as process materials either incorporated into other materials used as processing aids in the manufacture of other products, or used as carriers of other materials. Petroleum lubricants may be produced either from distillates or residues. Lubricants include all grades of lubricating oils from spindle oil to cylinder oil and those used in greases.

Merchant Oxygenate Plants. Oxygenate production facilities that are not associated with a petroleum refinery. Production from these facilities is sold under contract or on the spot market to refiners or other gasoline blenders.

Methanol (CH₃OH). A light, volatile alcohol intended for gasoline blending as described in Oxygenate definition.

Middle Distillates. A general classification of refined petroleum products that includes distillate fuel oil and kerosene.

Military Kerosene-Type Jet Fuel. See *Kerosene-Type Jet Fuel.*

Miscellaneous Products. Includes all finished products not classified elsewhere (e.g., petrolatum, lube refining byproducts (aromatic extracts and tars), absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, and specialty oils). Note:

Beginning with January 2004 data, naphtha-type jet fuel is included in Miscellaneous Products.

Motor Gasoline (Finished). A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in spark-ignition engines. Motor gasoline, as defined in ASTM Specification D 4814 or Federal Specification VV-G-1690C, is characterized as having a boiling range of 122 to 158 degrees Fahrenheit at the 10 percent recovery point to 365 to 374 degrees Fahrenheit at the 90 percent recovery point. "Motor Gasoline" includes conventional gasoline; all types of oxygenated gasoline, including gasohol; and reformulated gasoline, but excludes aviation gasoline. Volumetric data on blending components, such as oxygenates, are not counted in data on finished motor gasoline until the blending components are blended into the gasoline. Note: E85 is included only in volumetric data on finished motor gasoline production and other components of product supplied.

Conventional Gasoline. Finished motor gasoline not included in the oxygenated or reformulated gasoline categories. Note: This category excludes reformulated gasoline blendstock for oxygenate blending (RBOB) as well as other blendstock.

Ed 55 and Lower. Finished conventional motor gasoline blended with a maximum of 55 volume percent denatured fuel ethanol.

Greater than Ed55. Finished conventional motor gasoline blended with denatured fuel ethanol where the volume percent of denatured fuel ethanol exceeds 55%.

OPRG. "Oxygenated Fuels Program Reformulated Gasoline" is reformulated gasoline which is intended for use in an oxygenated fuels program control area.

Oxygenated Gasoline (Including Gasohol). Oxygenated gasoline includes all finished motor gasoline, other than reformulated gasoline, having oxygen content of 2.0 percent or higher by weight. Gasohol containing a minimum 5.7 percent ethanol by volume is included in oxygenated gasoline. Oxygenated gasoline was reported as a separate product from January 1993 until December 2003 inclusive. Beginning with monthly data for January 2004, oxygenated gasoline is included in conventional gasoline. Historical data for oxygenated gasoline excluded Federal Oxygenated Program Reformulated Gasoline (OPRG). Historical oxygenated gasoline data also excluded other reformulated gasoline with a seasonal oxygen requirement regardless of season.

Reformulated Gasoline. Finished gasoline formulated for use in motor vehicles, the composition and properties of which meet the requirements of the reformulated gasoline regulations promulgated by the U.S. Environmental Protection Agency under Section 211(k) of the Clean Air Act. It includes gasoline produced to meet or exceed emissions performance and benzene content standards of federal-program reformulated gasoline even though the gasoline

may not meet all of the composition requirements (e.g., oxygen content) of federal-program reformulated gasoline. Note: This category includes Oxygenated Fuels Program Reformulated Gasoline (OPRG). Reformulated gasoline excludes Reformulated Blendstock for Oxygenate Blending (RBOB) and Gasoline Treated as Blendstock (GTAB).

Reformulated (Blended with Alcohol). Reformulated gasoline blended with an alcohol component (e.g., fuel ethanol) at a terminal or refinery to raise the oxygen content.

Reformulated (Blended with Ether). Reformulated gasoline blended with an ether component (e.g., methyl tertiary butyl ether) at a terminal or refinery to raise the oxygen content.

Reformulated (Non-Oxygenated). Reformulated gasoline without added ether or alcohol components.

Motor Gasoline Blending. Mechanical mixing of motor gasoline blending components, and oxygenates when required, to produce finished motor gasoline. Finished motor gasoline may be further mixed with other motor gasoline blending components or oxygenates, resulting in increased volumes of finished motor gasoline and/or changes in the formulation of finished motor gasoline (e.g., conventional motor gasoline mixed with MTBE to produce oxygenated motor gasoline).

Motor Gasoline Blending Components. Naphthas (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. These components include reformulated gasoline blendstock for oxygenate blending (RBOB) but exclude oxygenates (alcohols, ethers), butane, and pentanes plus. Note: Oxygenates are reported as individual components and are included in the total for other hydrocarbons, hydrogens, and oxygenates.

Conventional Blendstock for Oxygenate Blending (CBOB). Conventional gasoline blendstock intended for blending with oxygenates downstream of the refinery where it was produced. CBOB must become conventional gasoline after blending with oxygenates. Motor gasoline blending components that require blending other than with oxygenates to become finished conventional gasoline are reported as All Other Motor Gasoline Blending Components. Excludes reformulated blendstock for oxygenate blending (RBOB).

Gasoline Treated as Blendstock (GTAB). Non-certified Foreign Refinery gasoline classified by an importer as blendstock to be either blended or reclassified with respect to reformulated or conventional gasoline. GTAB was classified on EIA surveys as either reformulated or conventional based on emissions performance and the intended end use in data through the end of December 2009. Designation of GTAB as reformulated or conventional was discontinued beginning with data for January 2010. GTAB was reported as a single product beginning with data for January 2010. GTAB data for January 2010 and later months is presented as conventional

motor gasoline blending components when reported as a subset of motor gasoline blending components.

Reformulated Blendstock for Oxygenate Blending (RBOB).

Specially produced reformulated gasoline blendstock intended for blending with oxygenates downstream of the refinery where it was produced. Includes RBOB used to meet requirements of the Federal reformulated gasoline program and other blendstock intended for blending with oxygenates to produce finished gasoline that meets or exceeds emissions performance requirements of Federal reformulated gasoline (e.g., California RBOB and Arizona RBOB). Excludes conventional gasoline blendstocks for oxygenate blending (CBOB).

RBOB for Blending with Alcohol. Motor gasoline blending components intended to be blended with an alcohol component (e.g., fuel ethanol) at a terminal or refinery to raise the oxygen content. RBOB product detail by type of oxygenate was discontinued effective with data for January 2010. Beginning with data for January 2010, RBOB was reported as a single product.

RBOB for Blending with Ether. Motor gasoline blending components intended to be blended with an ether component (e.g., methyl tertiary butyl ether) at a terminal or refinery to raise the oxygen content. RBOB product detail by type of oxygenate was discontinued effective with data for January 2010. Beginning with data for January 2010, RBOB was reported as a single product.

All Other Motor Gasoline Blending Components.

Naphthas (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. Includes receipts and inputs of Gasoline Treated as Blendstock (GTAB). Excludes conventional blendstock for oxygenate blending (CBOB), reformulated blendstock for oxygenate blending, oxygenates (e.g. fuel ethanol and methyl tertiary butyl ether), butane, and pentanes plus.

MTBE (Methyl tertiary butyl ether) $(CH_3)_3COCH_3$. An ether intended for gasoline blending as described in Oxygenate definition.

Naphtha. A generic term applied to a petroleum fraction with an approximate boiling range between 122 degrees Fahrenheit and 400 degrees Fahrenheit.

Naphtha Less Than 401° F. See *Petrochemical Feedstocks*.

Naphtha-Type Jet Fuel. A fuel in the heavy naphtha boiling range having an average gravity of 52.8 degrees API, 20 to 90 percent distillation temperatures of 290 degrees to 470 degrees Fahrenheit, and meeting Military Specification MIL-T-5624L (Grade JP-4). It is used primarily for military turbojet and turboprop aircraft engines because it has a lower freeze point than other aviation fuels and meets engine requirements at high altitudes and speeds. Note: Beginning with January 2004 data, naphtha-type jet fuel is included in *Miscellaneous Products*.

Natural Gas. A gaseous mixture of hydrocarbon compounds, the primary one being **methane**.

Natural Gas Field Facility. A field facility designed to process natural gas produced from more than one lease for the purpose of recovering condensate from a stream of natural gas; however, some field facilities are designed to recover propane, normal butane, pentanes plus, etc., and to control the quality of natural gas to be marketed.

Natural Gas Liquids. Those hydrocarbons in natural gas that are separated from the gas as liquids through the process of absorption, condensation, adsorption, or other methods in gas processing or cycling plants. Generally such liquids consist of propane and heavier hydrocarbons and are commonly referred to as lease condensate, natural gasoline, and liquefied petroleum gases. Natural gas liquids include natural gas plant liquids (primarily ethane, propane, butane, and isobutane; see *Natural Gas Plant Liquids*) and lease condensate (primarily pentanes produced from natural gas at lease separators and field facilities; see *Lease Condensate*).

Natural Gas Plant Liquids. Those hydrocarbons in natural gas that are separated as liquids at natural gas processing plants, fractionating and cycling plants, and, in some instances, field facilities. Lease condensate is excluded. Products obtained include ethane; liquefied petroleum gases (propane, butanes, propane-butane mixtures, ethane-propane mixtures); isopentane; and other small quantities of finished products, such as motor gasoline, special naphthas, jet fuel, kerosene, and distillate fuel oil.

Natural Gas Processing Plant. Facilities designed to recover natural gas liquids from a stream of natural gas that may or may not have passed through lease separators and/or field separation facilities. These facilities control the quality of the natural gas to be marketed. Cycling plants are classified as gas processing plants.

Natural Gasoline and Isopentane. A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas, that meets vapor pressure, end-point, and other specifications for natural gasoline set by the Gas Processors Association. Includes isopentane which is a saturated branch-chain hydrocarbon, (C_5H_{12}) , obtained by fractionation of natural gasoline or isomerization of normal pentane.

Net Receipts. The difference between total movements into and total movements out of each PAD District by pipeline, tanker, and barge.

Normal Butane. See *Butane*.

OPEC. The Organization of the Petroleum Exporting Countries (OPEC) was founded in Baghdad, Iraq, with the signing of an agreement in September 1960 by five countries namely Islamic Republic of Iran, Iraq, Kuwait, Saudi Arabia and Venezuela. They were to become the Founder Members of the Organization. These countries were later joined by Qatar (1961), Indonesia (1962), Libya (1962), the United Arab Emirates (1967), Algeria (1969), Nigeria (1971), Ecuador (1973), Gabon (1975), Angola (2007), Equatorial Guinea (2017) and Congo (2018). Ecuador suspended its membership in December 1992, rejoined OPEC in October 2007, but decided to withdraw its membership of OPEC effective 1 January 2020.

Indonesia suspended its membership in January 2009, reactivated it again in January 2016, but decided to suspend its membership once more at the 171st Meeting of the OPEC Conference on 30 November 2016. Gabon terminated its membership in January 1995. However, it rejoined the Organization in July 2016. Qatar terminated its membership on 1 January 2019.

Operable Capacity. The amount of capacity that, at the beginning of the period, is in operation; not in operation and not under active repair, but capable of being placed in operation within 30 days; or not in operation but under active repair that can be completed within 90 days. Operable capacity is the sum of the operating and idle capacity and is measured in barrels per calendar day or barrels per stream day.

Operable Utilization Rate. Represents the utilization of the atmospheric crude oil distillation units. The rate is calculated by dividing the gross input to these units by the operable refining capacity of the units.

Operating Capacity. The component of operable capacity that is in operation at the beginning of the period.

Operating Utilization Rate. Represents the utilization of the atmospheric crude oil distillation units. The rate is calculated by dividing the gross input to these units by the operating refining capacity of the units.

Other Hydrocarbons. Materials received by a refinery and consumed as raw materials. Includes coal tar derivatives and gilsonite. Included hydrogen in data prior to January 2009 and excluded hydrogen thereafter. Excludes natural gas used for fuel or hydrogen feedstock.

Other Oils Equal To or Greater Than 401° F. See *Petrochemical Feedstocks*.

Other Oxygenates. Other aliphatic alcohols and aliphatic ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

Oxygenated Gasoline. See *Motor Gasoline (Finished)*.

Oxygenates. Substances which, when added to gasoline, increase the amount of oxygen in that gasoline blend. Fuel Ethanol, Methyl Tertiary Butyl Ether (MTBE), Ethyl Tertiary Butyl Ether (ETBE), and methanol are common oxygenates.

Fuel Ethanol. Blends of up to 10 percent by volume anhydrous ethanol (200 proof) (commonly referred to as the “gasohol waiver”).

Methanol. Blends of methanol and gasoline-grade tertiary butyl alcohol (GTBA) such that the total oxygen content does not exceed 3.5 percent by weight and the ratio of methanol to GTBA is less than or equal to 1. It is also specified that this blended fuel must meet ASTM volatility specifications (commonly referred to as the “ARCO” waiver).

Blends of up to 5.0 percent by volume methanol with a minimum of 2.5 percent by volume cosolvent alcohols having a carbon number of 4 or less (i.e., ethanol, propanol, butanol, and/or GTBA). The total oxygen must not exceed

3.7 percent by weight, and the blend must meet ASTM volatility specifications as well as phase separation and alcohol purity specifications (commonly referred to as the “DuPont” waiver).

MTBE (Methyl tertiary butyl ether). Blends up to 15.0 percent by volume MTBE which must meet the ASTM D4814 specifications. Blenders must take precautions that the blends are not used as base gasolines for other oxygenated blends (commonly referred to as the “Sun” waiver).

Pentanes Plus. A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas. Includes isopentane, natural gasoline, and plant condensate.

Persian Gulf. The countries that comprise the Persian Gulf are: Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates.

Petrochemical Feedstocks. Chemical feedstocks derived from petroleum principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics. The categories reported are “Naphtha Less Than 401° F” and “Other Oils Equal To or Greater Than 401° F.”

Naphtha Less Than 401° F. A naphtha with a boiling range of less than 401 degrees Fahrenheit that is intended for use as a petrochemical feedstock.

Other Oils Equal To or Greater Than 401° F. Oils with a boiling range equal to or greater than 401 degrees Fahrenheit that are intended for use as a petrochemical feedstock.

Petroleum Administration for Defense (PAD) Districts. Geographic aggregations of the 50 States and the District of Columbia into five districts by the Petroleum Administration for Defense in 1950. These districts were originally defined during World War II for purposes of administering oil allocation.

Petroleum Coke. A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion is 5 barrels (of 42 U.S. gallons each) per short ton. Coke from petroleum has a heating value of 6.024 million Btu per barrel.

Catalyst Coke. In many catalytic operations (e.g., catalytic cracking) carbon is deposited on the catalyst, thus deactivating the catalyst. The catalyst is reactivated by burning off the carbon, which is used as a fuel in the refining process. This carbon or coke is not recoverable in a concentrated form.

Marketable Coke. Those grades of coke produced in delayed or fluid cokers which may be recovered as relatively pure carbon. This “green” coke may be sold as is or further purified by calcining.

Petroleum Products. Petroleum products are obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, liquefied petroleum gases, pentanes plus, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet

fuel, kerosene, distillate fuel oil, residual fuel oil, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

Pipeline (Petroleum). Crude oil and product pipelines used to transport crude oil and petroleum products respectively, (including interstate, intrastate, and intracompany pipelines) within the 50 States and the District of Columbia.

Plant Condensate. One of the natural gas liquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquids at gas inlet separators or scrubbers in processing plants.

Processing Gain. The volumetric amount by which total output is greater than input for a given period of time. This difference is due to the processing of crude oil into products which, in total, have a lower specific gravity than the crude oil processed.

Processing Loss. The volumetric amount by which total refinery output is less than input for a given period of time. This difference is due to the processing of crude oil into products which, in total, have a higher specific gravity than the crude oil processed.

Product Supplied, Crude Oil. Crude oil burned on leases and by pipelines as fuel.

Production Capacity. The maximum amount of product that can be produced from processing facilities.

Products Supplied. Approximately represents consumption of petroleum products because it measures the disappearance of these products from primary sources, i.e., refineries, natural gas processing plants, blending plants, pipelines, and bulk terminals. In general, product supplied of each product in any given period is computed as follows: field production, plus refinery production, plus imports, plus unaccounted for crude oil, (plus net receipts when calculated on a PAD District basis), minus stock change, minus crude oil losses, minus refinery inputs, minus exports.

Propane (C₃H₈). A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of - 43.67 degrees Fahrenheit. It is extracted from natural gas or refinery gas streams. It includes all products designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial propane and HD-5 propane.

Propylene (C₃H₆). An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

Propylene (C₃H₆) (nonfuel use). Propylene that is intended for use in nonfuel applications such as petrochemical manufacturing. Nonfuel use propylene includes chemical-grade propylene, polymer-grade propylene, and trace amounts of propane. Nonfuel use propylene also includes the propylene component of propane/propylene mixes where the propylene will be separated from the mix in a propane/propylene splitting process. Excluded is the propylene component of propane/propylene mixes where the propylene component of the mix is intended for sale into the fuel market.

Refinery. An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and oxygenates.

Refinery-Grade Butane. See *Butane*.

Refinery Input, Crude Oil. Total crude oil (domestic plus foreign) input to crude oil distillation units and other refinery processing units (cokers, etc.).

Refinery Input, Total. The raw materials and intermediate materials processed at refineries to produce finished petroleum products. They include crude oil, products of natural gas processing plants, unfinished oils, other hydrocarbons and oxygenates, motor gasoline and aviation gasoline blending components and finished petroleum products.

Refinery Production. Petroleum products produced at a refinery or blending plant. Published production of these products equals refinery production minus refinery input. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month. Refinery production of unfinished oils, and motor and aviation gasoline blending components appear on a net basis under refinery input.

Refinery Yield. Represents the percent of finished product produced from input of crude oil, hydrogen, and other hydrocarbons, and net input of unfinished oils. Except for finished motor gasoline, finished aviation gasoline, and distillate fuel oil, EIA calculates refinery yield equal to net production of a finished petroleum product divided by the sum of input of crude oil, hydrogen, other hydrocarbons, and net input of unfinished oils. In the case of finished motor gasoline, subtract input of natural gas liquids, fuel ethanol, oxygenates, and net input of motor gasoline blending components from net production of finished motor gasoline and then divide by the sum of input of crude oil, hydrogen, other hydrocarbons, and net input of unfinished oils. In the case of finished aviation gasoline, subtract net input of aviation gasoline blending components from net production of finished aviation gasoline and then divide by the sum of input of crude oil, hydrogen, other hydrocarbons, and net input of unfinished oils. In the case of distillate fuel oil, subtract input of renewable fuels except fuel ethanol (including input of biodiesel, renewable diesel fuel, and other renewable fuels) from distillate fuel oil net production and then divide by the sum of input of crude oil, hydrogen, other hydrocarbons, and net input of unfinished oils. Prior to data for January 2009, EIA calculated refinery yields (except for finished motor gasoline) equal to finished product net production divided by the sum of input of crude oil and net input of unfinished oils. EIA calculated refinery yield of finished motor gasoline equal to net production of finished motor gasoline minus the sum of input of natural gas liquids, other hydrocarbons and oxygenates, and net input of motor gasoline blending components divided by the sum of input of crude oil and net input of unfinished oils.

Reformulated Blendstock for Oxygenate Blending (RBOB). See *Motor Gasoline Blending Components*.

Reformulated Gasoline. See *Motor Gasoline (Finished)*.

Renewable Fuels (Other). Fuels and fuel blending components, except biomass-based diesel fuel, renewable diesel fuel, and fuel ethanol, produced from renewable biomass.

Residual Fuel Oil. A general classification for the heavier oils, known as No. 5 and No. 6 fuel oils, that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations. It conforms to ASTM Specifications D 396 and D 975 and Federal Specification VV-F-815C. No. 5, a residual fuel oil of medium viscosity, is also known as Navy Special and is defined in Military Specification MIL-F-859E, including Amendment 2 (NATO Symbol F-770). It is used in steam-powered vessels in government service and inshore power plants. No. 6 fuel oil includes Bunker C fuel oil and is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes.

Residuum. Residue from crude oil after distilling off all but the heaviest components, with a boiling range greater than 1000 degrees Fahrenheit.

Road Oil. Any heavy petroleum oil, including residual asphaltic oil used as a dust palliative and surface treatment on roads and highways. It is generally produced in six grades from 0, the most liquid, to 5, the most viscous.

Shell Storage Capacity. The design capacity of a petroleum storage tank which is always greater than or equal to working storage capacity. Special Naphthas. All finished products within the naphtha boiling range that are used as paint thinners, cleaners, or solvents. These products are refined to a specified flash point. Special naphthas include all commercial hexane and cleaning solvents conforming to ASTM Specification D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline, or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks are excluded.

Steam (Purchased). Steam, purchased for use by a refinery, that was not generated from within the refinery complex.

Still Gas (Refinery Gas). Any form or mixture of gases produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, normal butane, butylene, propane, propylene, etc. Still gas is used as a refinery fuel and a petrochemical feedstock. The conversion factor is 6 million BTU's per fuel oil equivalent barrel.

Stock Change. The difference between stocks at the beginning of the reporting period and stocks at the end of the reporting period. Note: A negative number indicates a decrease (i.e., a drawdown) in stocks and a positive number indicates an increase (i.e., a buildup) in stocks during the reporting period.

Strategic Petroleum Reserve (SPR). Petroleum stocks maintained by the Federal Government for use during periods of major supply interruption.

Sulfur. A yellowish nonmetallic element, sometimes known as "brimstone." It is present at various levels of concentration in many fossil fuels whose combustion releases sulfur compounds that are considered harmful to the environment. Some of the most commonly used fossil fuels are categorized according to their sulfur content, with lower sulfur fuels usually selling at a higher price. Note: No.

2 Distillate fuel is currently reported as having either a 0.05 percent or lower sulfur level for on-highway vehicle use or a greater than 0.05 percent sulfur level for off-highway use, home heating oil, and commercial and industrial uses. Residual fuel, regardless of use, is classified as having either no more than 1 percent sulfur or greater than 1 percent sulfur. Coal is also classified as being low-sulfur at concentrations of 1 percent or less or high-sulfur at concentrations greater than 1 percent.

Supply. The components of petroleum supply are field production, refinery production, imports, and net receipts when calculated on a PAD District basis.

TAME (Tertiary amyl methyl ether) $(CH_3)_2(C_2H_5)COCH_3$. An oxygenate blend stock formed by the catalytic etherification of isoamylene with methanol.

Tank Farm. An installation used by gathering and trunk pipeline companies, crude oil producers, and terminal operators (except refineries) to store crude oil.

Tanker and Barge. Vessels that transport crude oil or petroleum products. Data are reported for movements between PAD Districts; from a PAD District to the Panama Canal; or from the Panama Canal to a PAD District.

TBA (Tertiary butyl alcohol) $(CH_3)_3COH$. An alcohol primarily used as a chemical feedstock, a solvent or feedstock for isobutylene production for MTBE; produced as a co-product of propylene oxide production or by direct hydration of isobutylene.

Thermal Cracking. A refining process in which heat and pressure are used to break down, rearrange, or combine hydrocarbon molecules. Thermal cracking includes gas oil, visbreaking, fluid coking, delayed coking, and other thermal cracking processes (e.g., flexicoking). See individual categories for definition.

Toluene $(C_6H_5CH_3)$. Colorless liquid of the aromatic group of petroleum hydrocarbons, made by the catalytic reforming of petroleum naphthas containing methyl cyclohexane. A high-octane gasoline-blending agent, solvent, and chemical intermediate, base for TNT.

Ultra-Low Sulfur Distillate Fuel Oil. Distillate fuel oil having sulfur content of 15 ppm or lower. Ultra-low sulfur distillate fuel oil that will be shipped by pipeline must satisfy the sulfur specification of the shipping pipeline if the pipeline specification is below 15 ppm. Distillate fuel oil intended for pipeline shipment that fails to meet a pipeline sulfur specification that is below 15 ppm will be classified as low-sulfur distillate fuel oil.

Unaccounted for Crude Oil. Represents the arithmetic difference between the calculated supply and the calculated disposition of crude oil. The calculated supply is the sum of crude oil production plus imports minus changes in crude oil stocks. The calculated disposition of crude oil is the sum of crude oil input to refineries, crude oil exports, crude oil burned as fuel, and crude oil losses.

Unfinished Oils. All oils requiring further processing, except those requiring only mechanical blending. Unfinished oils are produced by partial refining of crude oil and include naphthas and lighter oils,

kerosene and light gas oils, heavy gas oils, and residuum.

Unfractionated Streams. Mixtures of unsegregated natural gas liquid components excluding, those in plant condensate. This product is extracted from natural gas.

United States. The United States is defined as the 50 States and the District of Columbia.

Vacuum Distillation. Distillation under reduced pressure (less the atmospheric) which lowers the boiling temperature of the liquid being distilled. This technique with its relatively low temperatures prevents cracking or decomposition of the charge stock.

Visbreaking. A thermal cracking process in which heavy atmospheric or vacuum-still bottoms are cracked at moderate temperatures to increase production of distillate products and reduce viscosity of the distillation residues.

Wax. A solid or semi-solid material at 77 degrees Fahrenheit consisting of a mixture of hydrocarbons obtained or derived from petroleum fractions, or through a Fischer-Tropsch type process, in

which the straight-chained paraffin series predominates. This includes all marketable wax, whether crude or refined, with a congealing point (ASTM D 938) between 80 (or 85) and 240 degrees Fahrenheit and a maximum oil content (ASTM D 3235) of 50 weight percent.

Working Storage Capacity. The difference in volume between the maximum safe fill capacity and the quantity below which pump suction is ineffective (bottoms).

Xylene ($C_6H_4(CH_3)_2$). Colorless liquid of the aromatic group of hydrocarbons made the catalytic reforming of certain naphthenic petroleum fractions. Used as high-octane motor and aviation gasoline blending agents, solvents, chemical intermediates. Isomers are metaxylene, orthoxylene, paraxylene.